

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 821 - L2 Version 4  
Chandra X-Ray Center

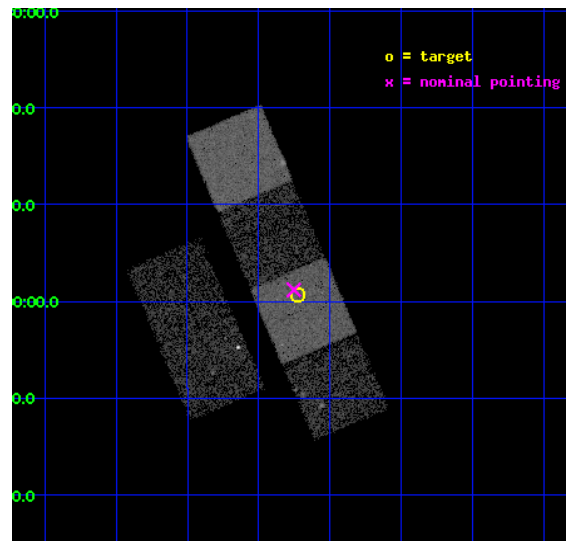
L2 Processing Date : Aug 22 2012

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# 1 Front

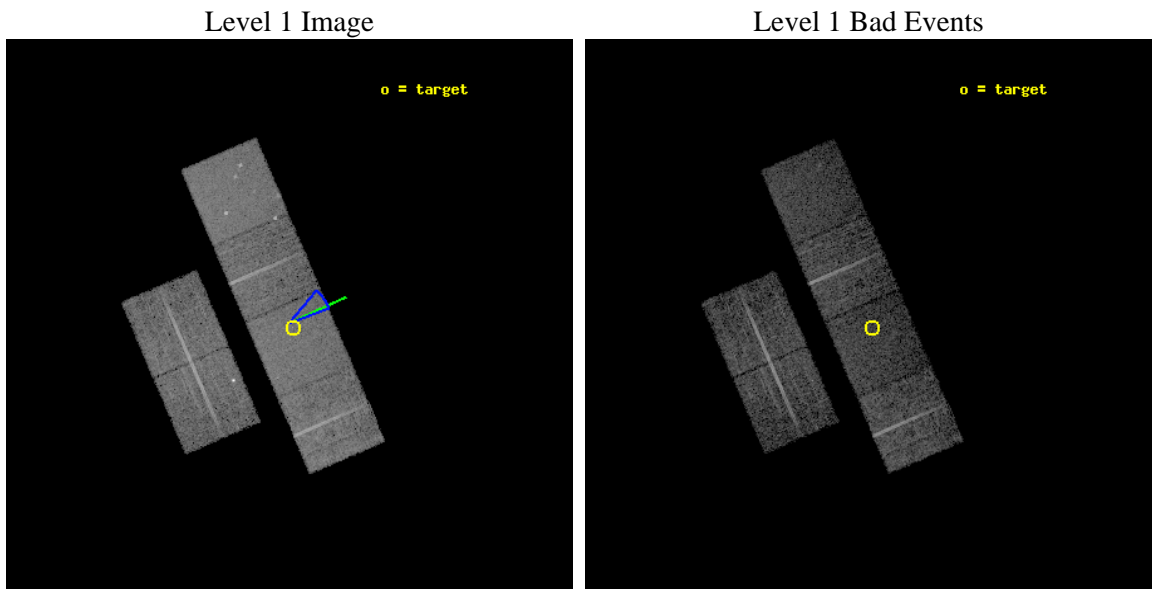
seq_num	700126	Sequence number
obs_id	821	Observation id
title	LIFTING THE SHROUD AROUND BROAD ABSORPTION LINE QSOS: AN AXAF SURVEY	&#160
observer	Dr. Paul Green	Principal investigator
object	Q1246-0542	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	192.3075	Observer's specified target RA [deg]
dec_targ	-5.988667	Observer's specified target Dec [deg]
ra_nom	192.31313352968	Nominal RA [deg]
dec_nom	-5.9802551676221	Nominal Dec [deg]
roll_nom	66.761507046702	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5547.3350854293	Sum of GTIs [s]
livetime	5477.0913883734	Livetime [s]
ontime2	5547.3761254326	Sum of GTIs [s]
ontime3	5547.2119654343	Sum of GTIs [s]
ontime5	5547.2940454334	Sum of GTIs [s]
ontime6	5547.2530054301	Sum of GTIs [s]
ontime7	5547.3350854293	Sum of GTIs [s]
ontime8	5547.170925431	Sum of GTIs [s]
l2events	64461	Number of level 2 events



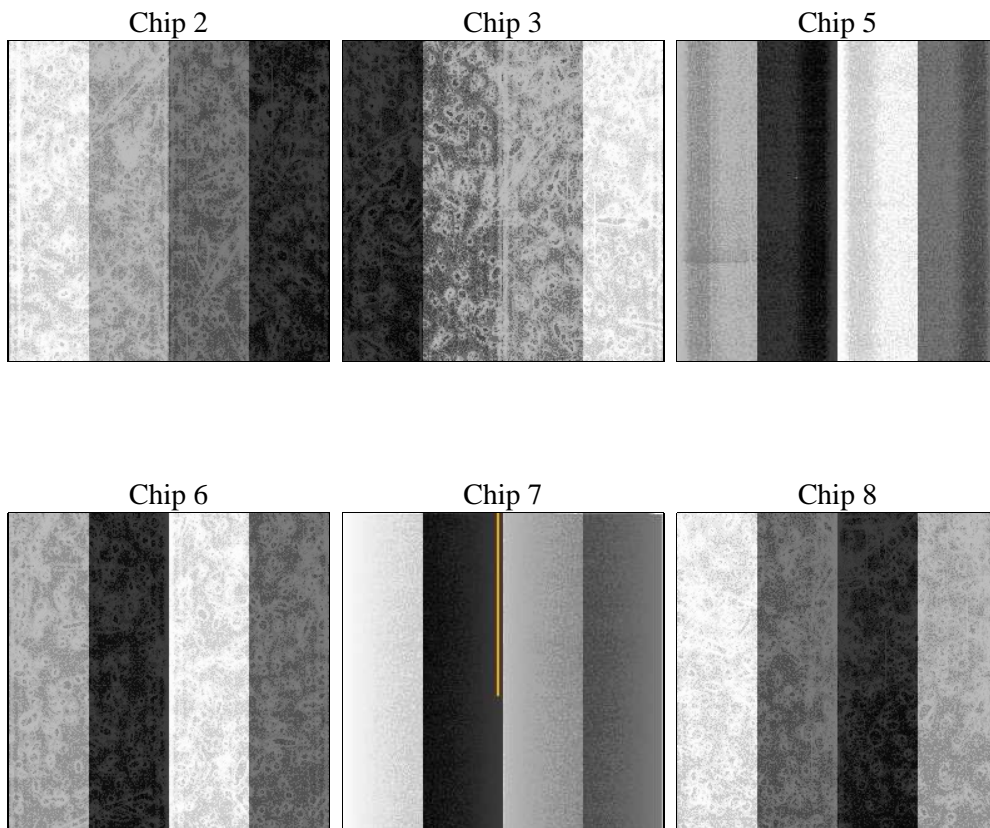
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5547.3350854293	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	5547.3761254326	Sum of GTIs [s]
date	2012-08-22T12:56:52	Date and time of file creation	ontime3	5547.2119654343	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5547.2940454334	Sum of GTIs [s]
			ontime6	5547.2530054301	Sum of GTIs [s]
			ontime7	5547.3350854293	Sum of GTIs [s]
			ontime8	5547.170925431	Sum of GTIs [s]
			l1events	296316	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	45051	46083	56485	43615	50481	54601	grade 0 events	1810	4326	3844	1884	2399	3245
rejected events	40762	38923	29318	39084	28448	44829		4%	9%	6%	4%	4%	5%
rejected %	90%	84%	51%	89%	56%	82%	grade 1 events	24	60	97	21	52	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	916	1046	7520	829	4269	2107
								2%	2%	13%	1%	8%	3%
							grade 3 events	413	523	1302	493	2045	936
								0%	1%	2%	1%	4%	1%
							grade 4 events	454	485	1280	459	2058	896
								1%	1%	2%	1%	4%	1%
							grade 5 events	1214	1427	4233	1552	4763	2047
								2%	3%	7%	3%	9%	3%
							grade 6 events	696	783	13231	868	11271	2640
								1%	1%	23%	1%	22%	4%
							grade 7 events	39524	37433	24978	37509	23624	42692
								87%	81%	44%	86%	46%	78%

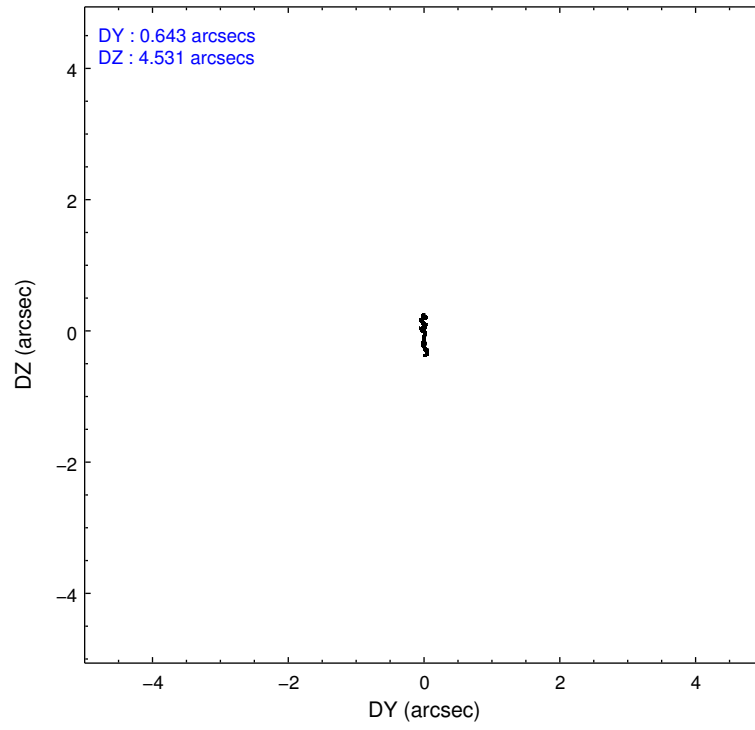
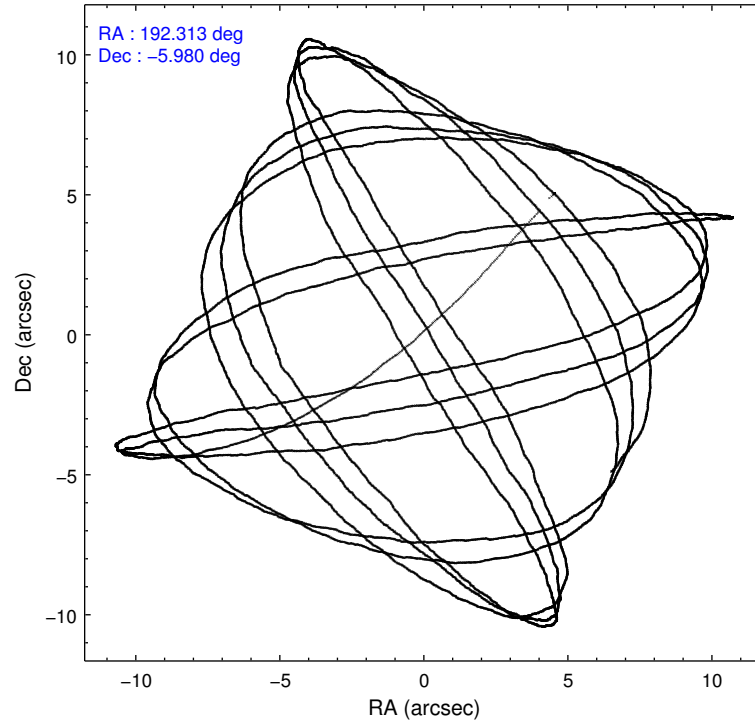


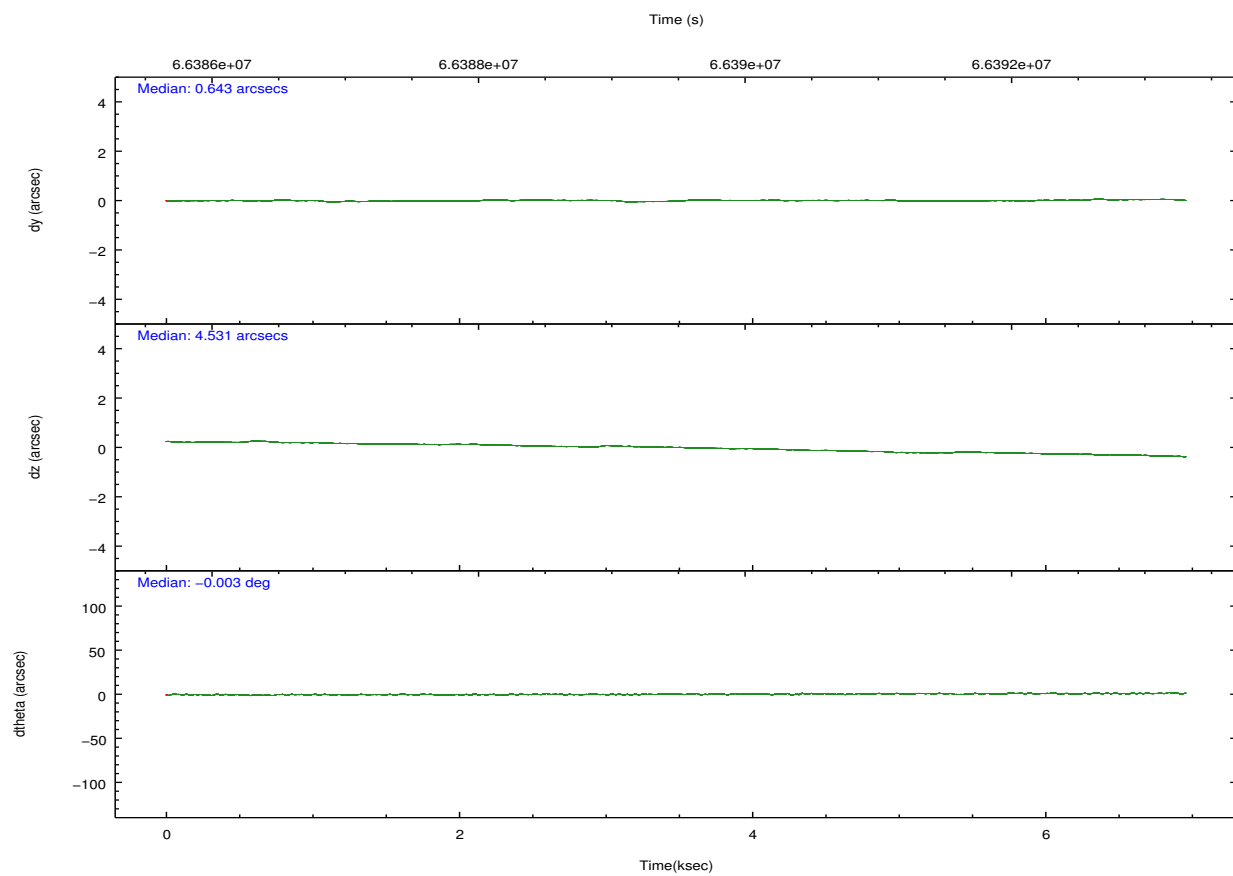
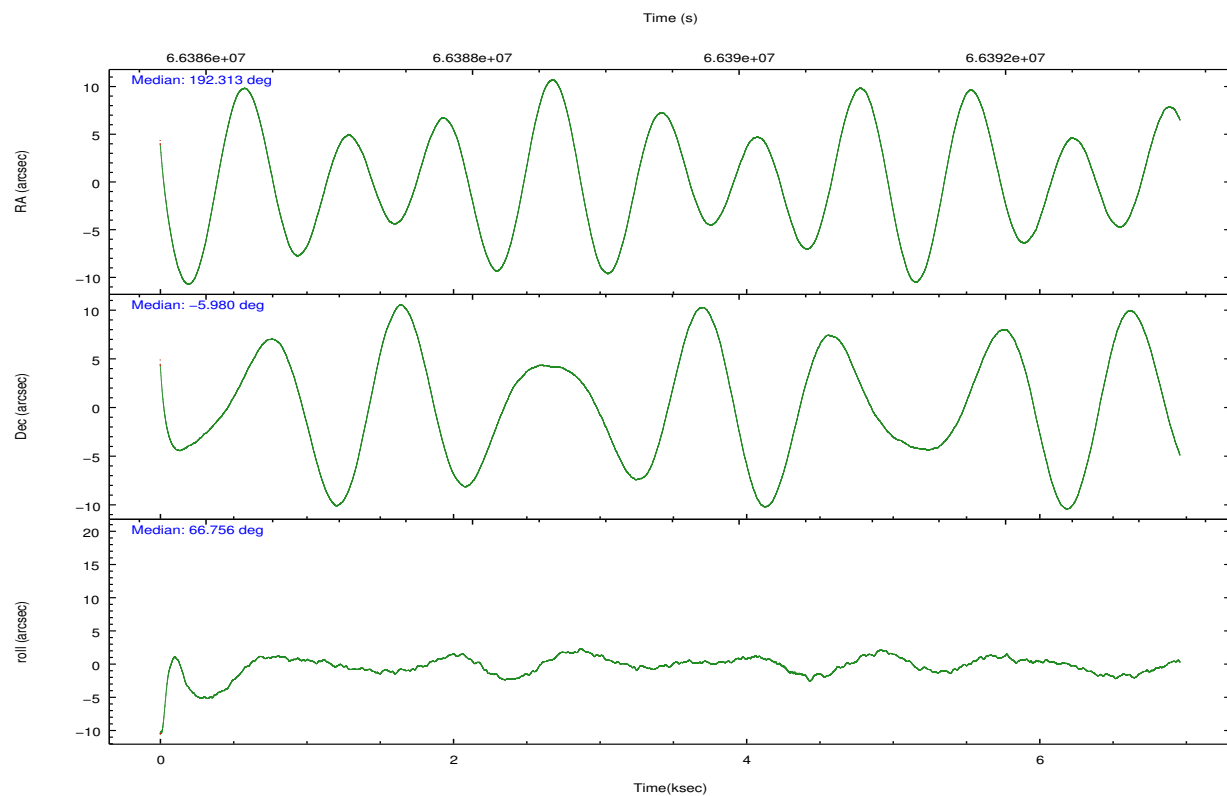
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	192.316433	192.3131335296759
[deg] Pointing Dec	-6.007583	-5.980255167622104
[deg] Pointing Roll	66.605245	66.76150704670155
[deg] Roll angle	55.000000	55.000000
[deg] Roll tolerance	15.000000	15.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	66386461.184000	66385163.955791
Observation start date	2000-02-08T08:39:57	2000-02-08T08:19:23
[s] Observation end time (MET)	66392961.184000	66393675.556101
Observation end date	2000-02-08T10:28:17	2000-02-08T10:41:15
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



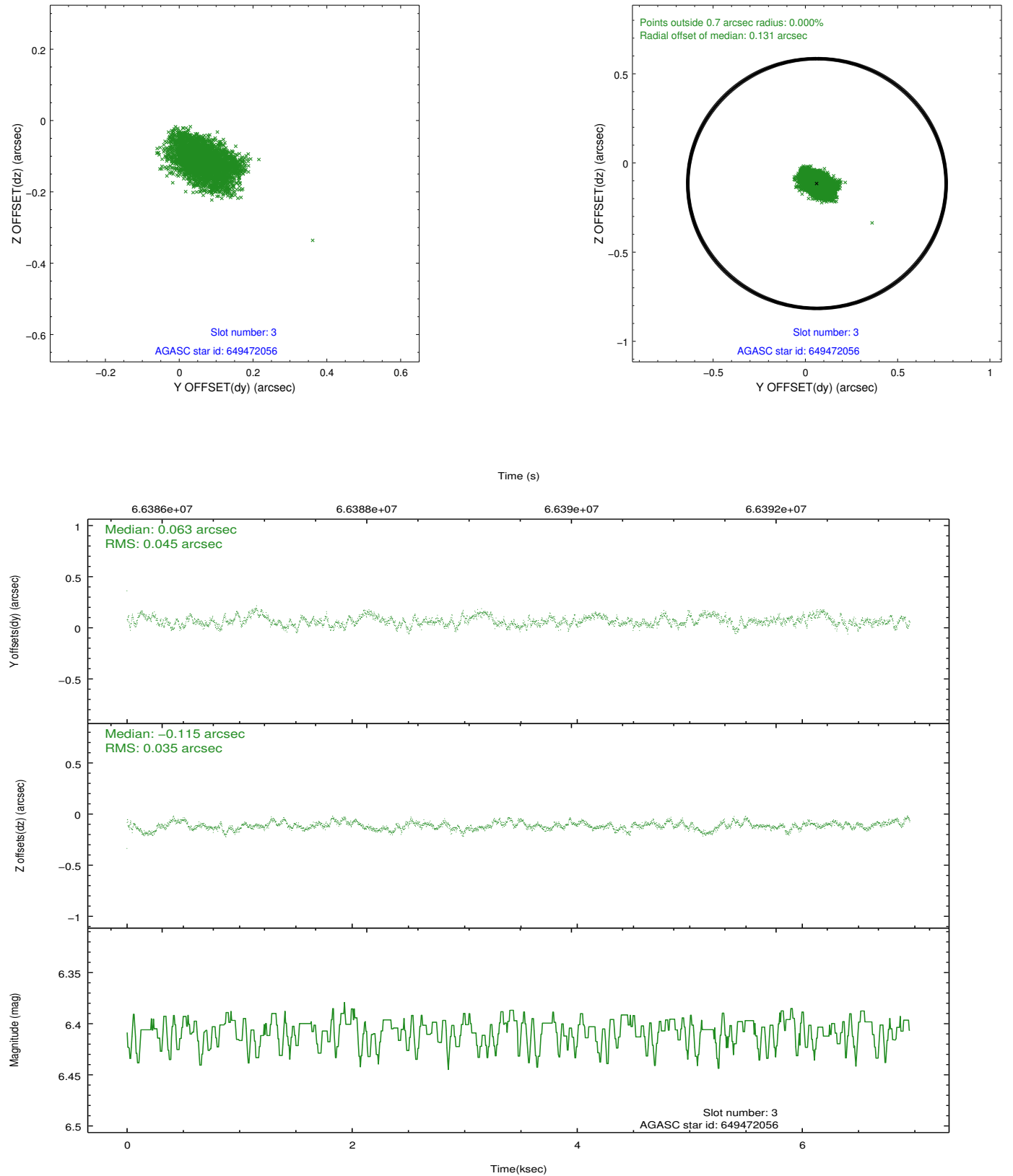


### Slot Statistics

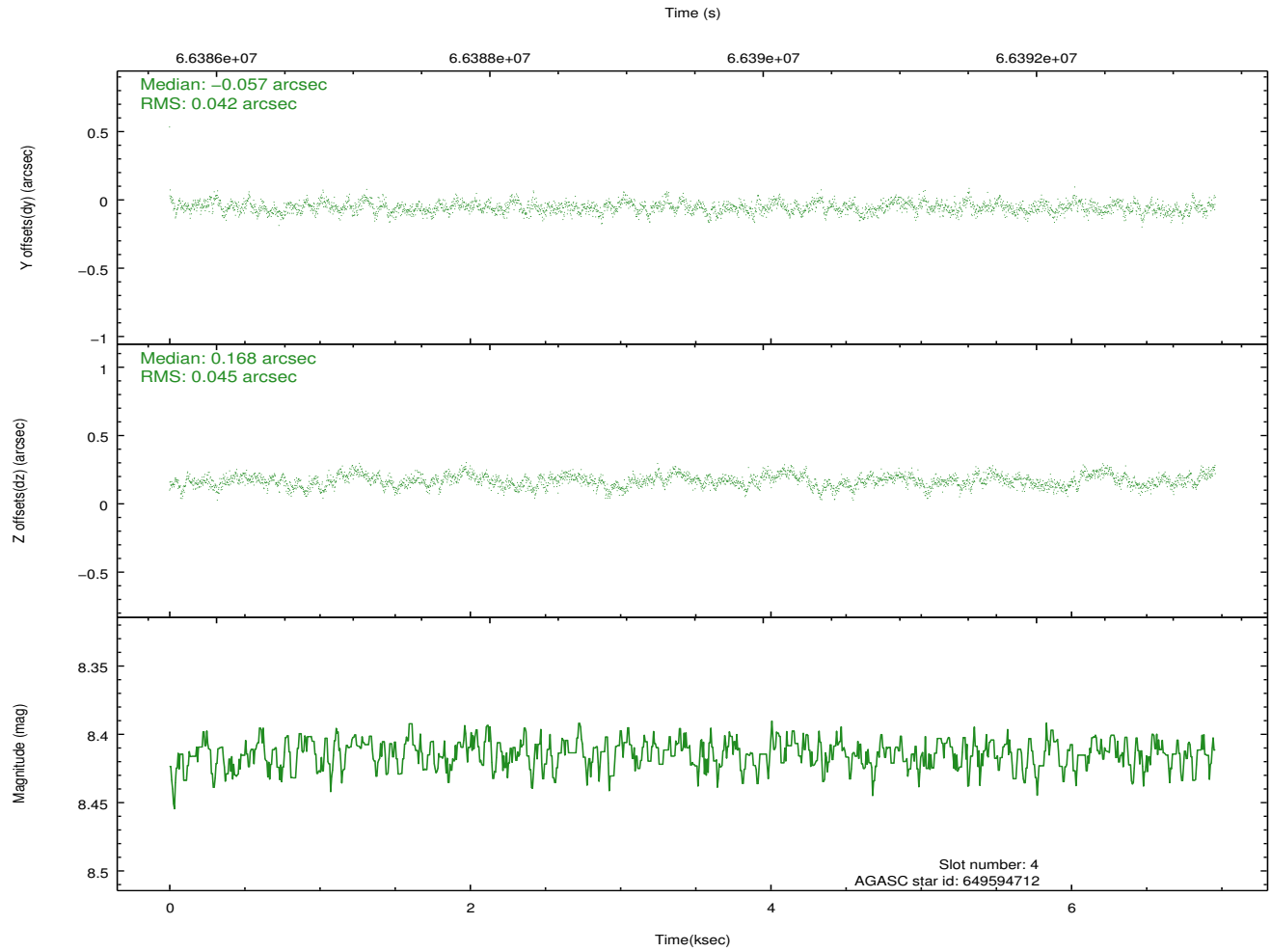
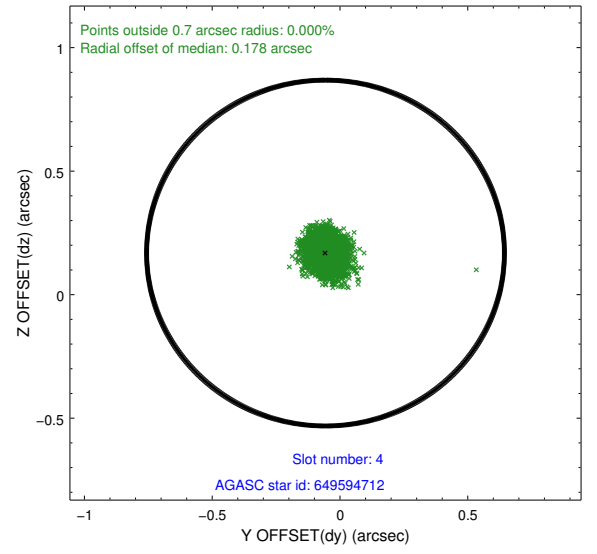
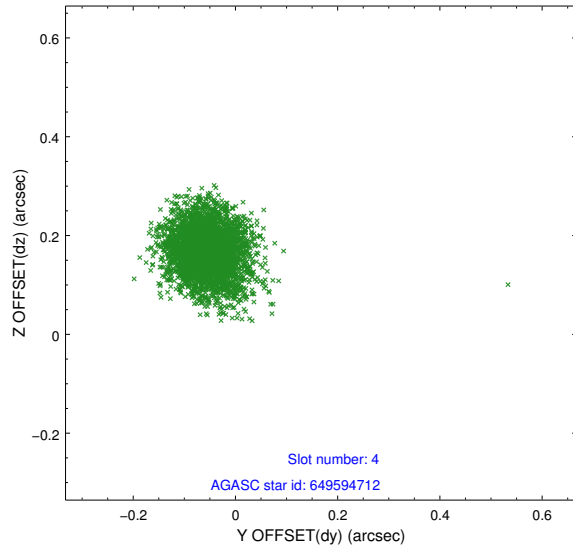
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1698	-0.017	-0.004	0.008	0.013	0.000000	0.000000	-753.26	-1725.59
1	FID	ACIS-S-4	7.21	1698	0.008	0.009	0.006	0.012	0.000000	0.000000	2159.69	182.01
2	FID	ACIS-S-5	7.24	1698	-0.023	0.004	0.007	0.012	0.000000	0.000000	-1805.01	176.68
3	GUIDE	649472056	6.41	3395	0.063	-0.115	0.061	0.101	191.889264	-6.301748	-1579.45	981.82
4	GUIDE	649594712	8.41	3393	-0.057	0.168	0.064	0.104	192.730305	-6.061024	410.85	-1435.98
5	GUIDE	649471800	8.60	3395	-0.214	-0.136	0.062	0.103	192.288030	-5.445033	1818.11	897.14
6	GUIDE	649471008	8.77	3395	0.073	-0.121	0.075	0.119	191.883055	-5.890695	-230.12	1591.24
7	GUIDE	649594864	9.66	3394	0.140	0.198	0.156	0.236	192.671736	-6.460364	-991.51	-1813.39

## 2.4 Star Slots

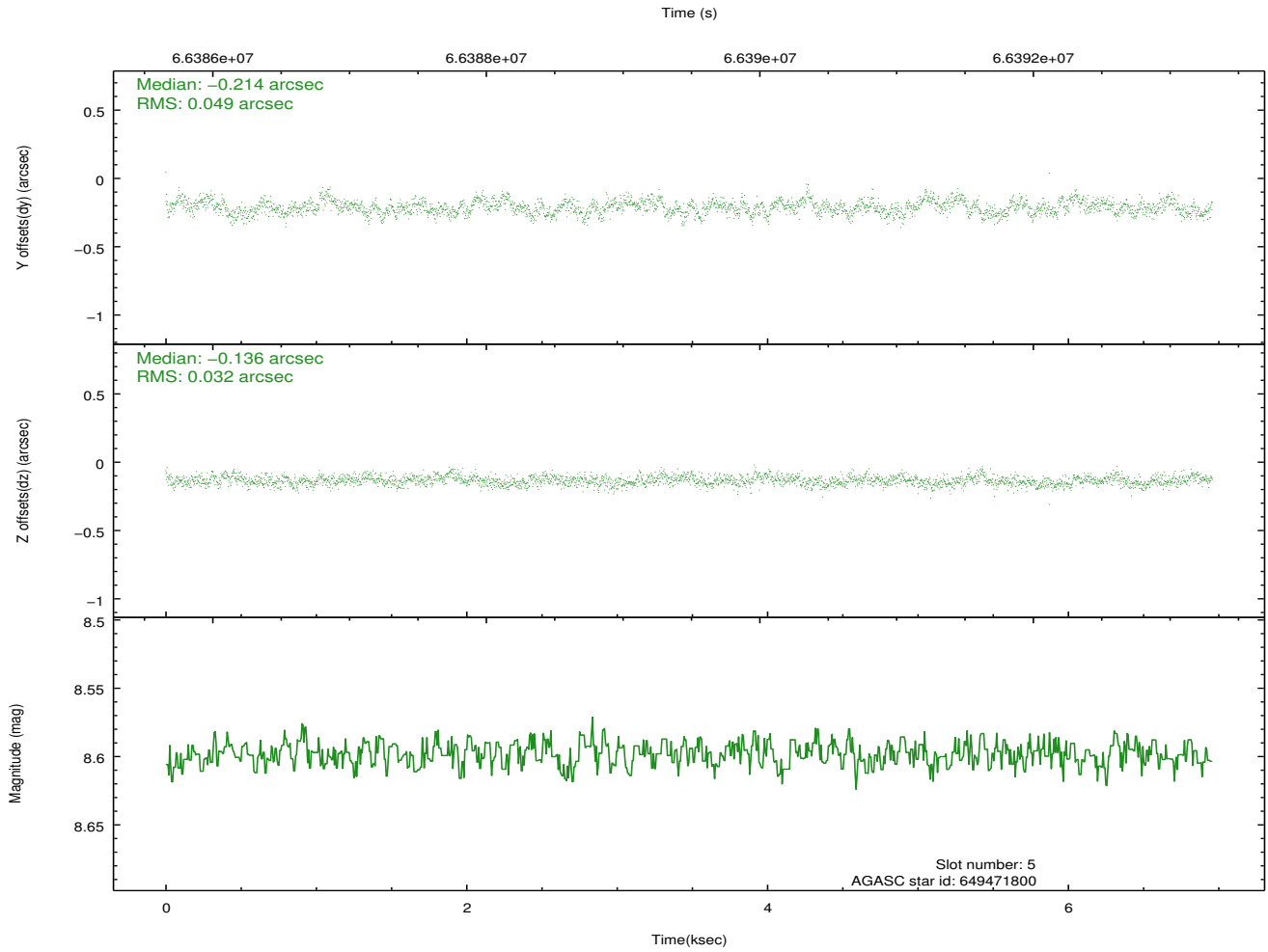
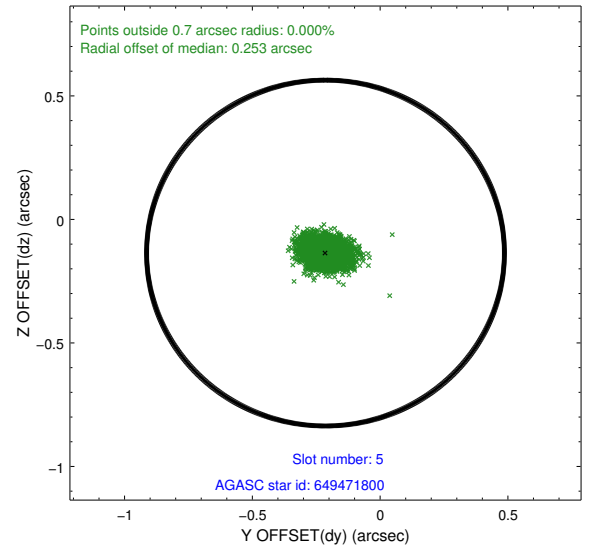
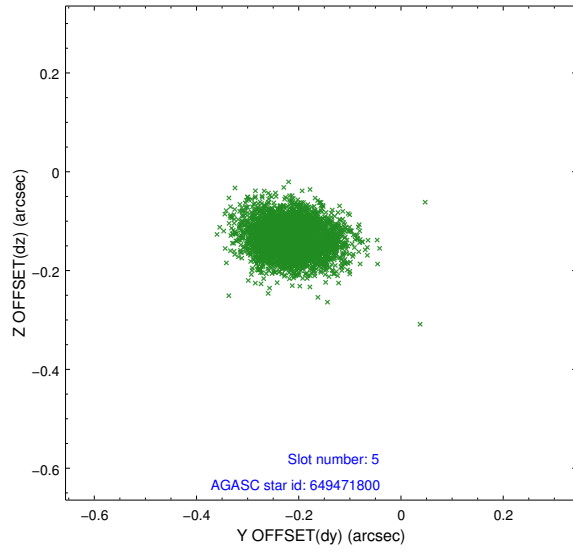
### 2.4.1 Slot 3



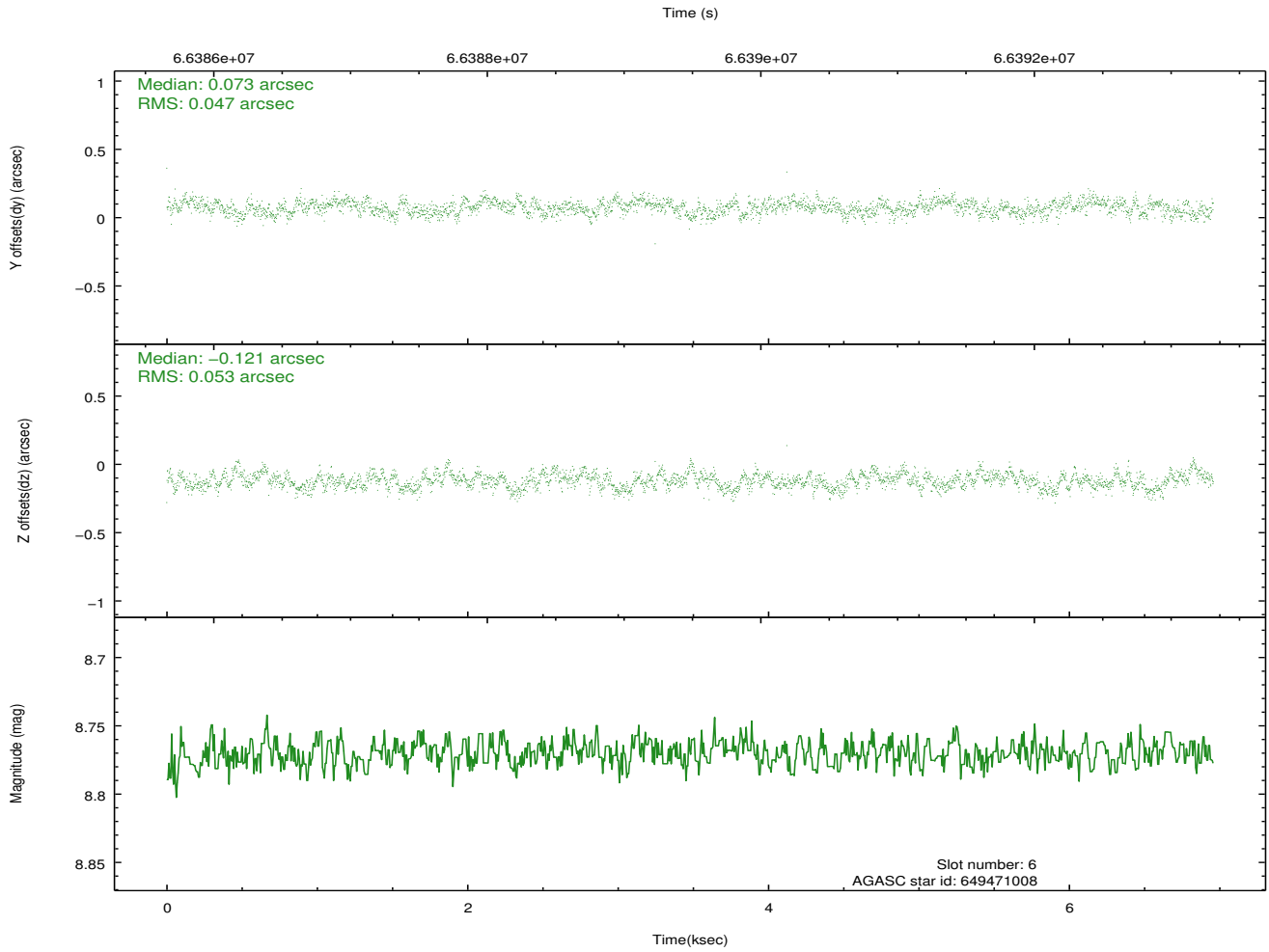
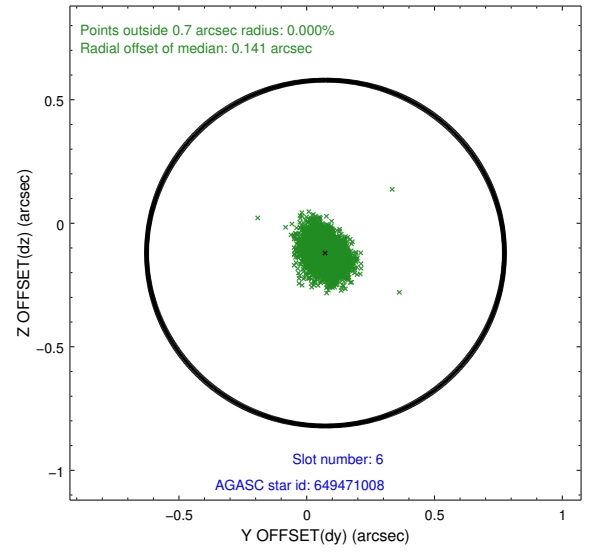
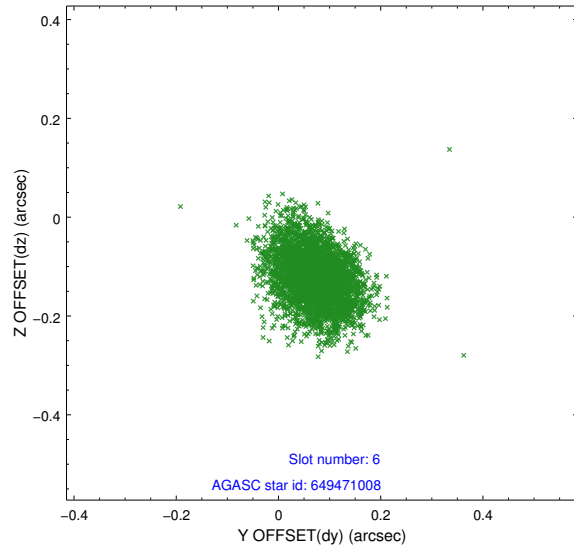
## 2.4.2 Slot 4



### 2.4.3 Slot 5

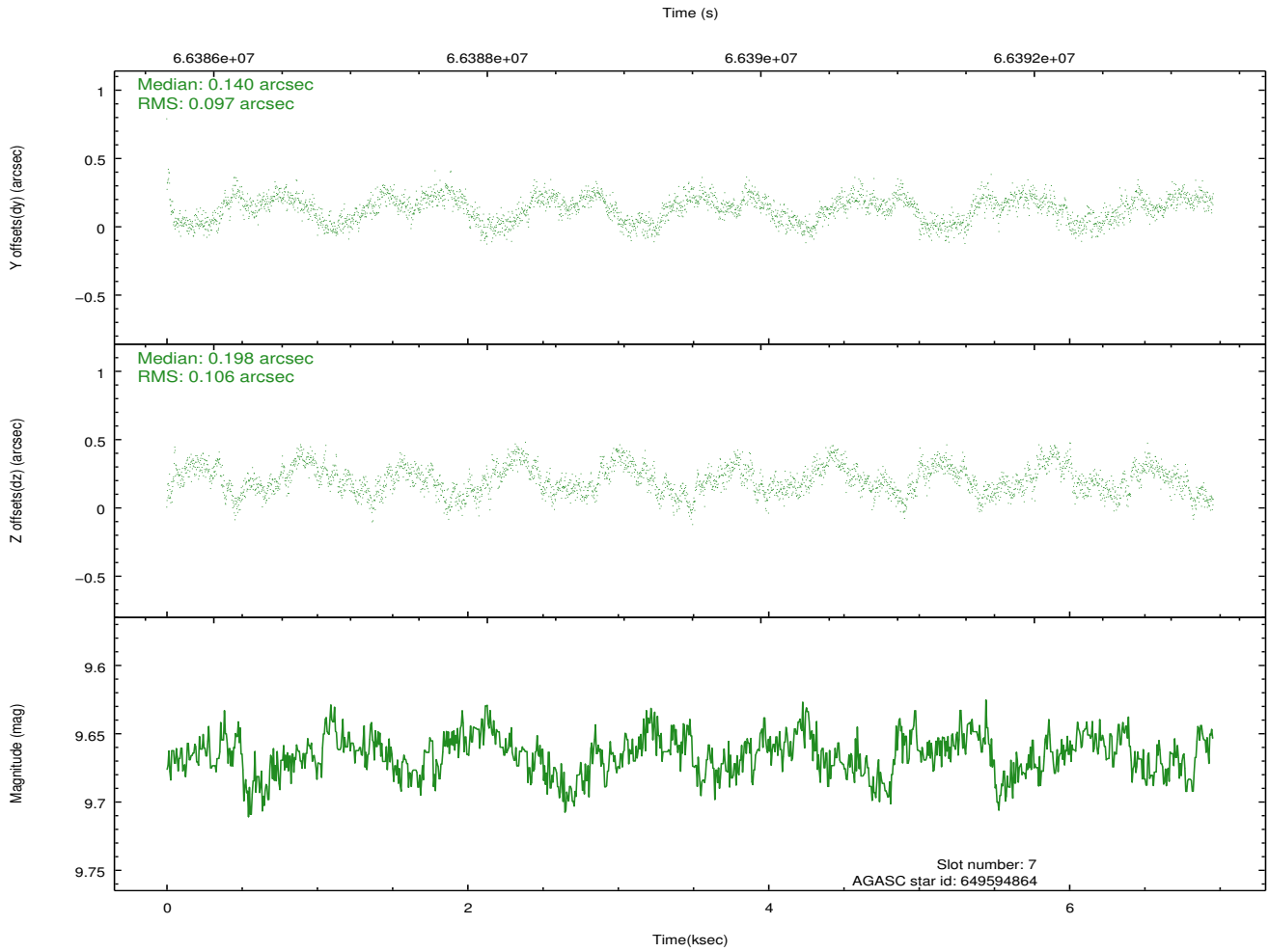
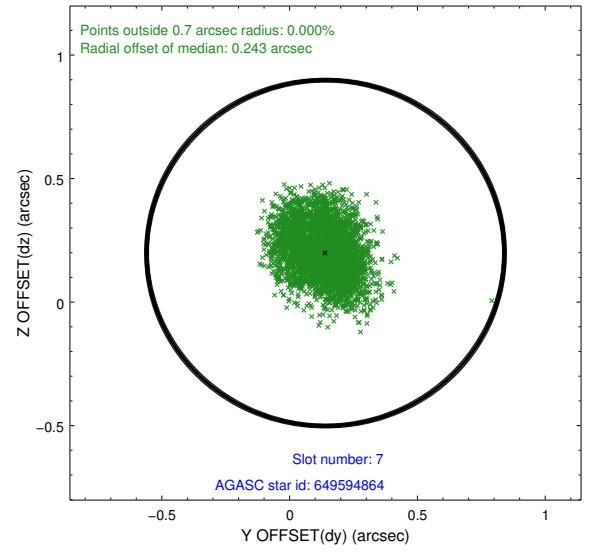
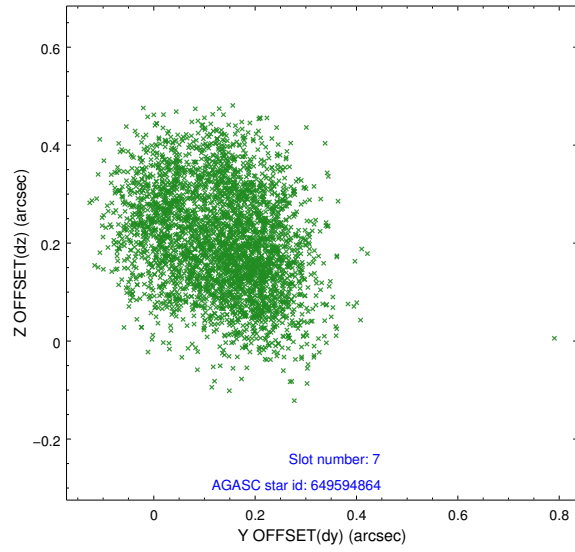


## 2.4.4 Slot 6



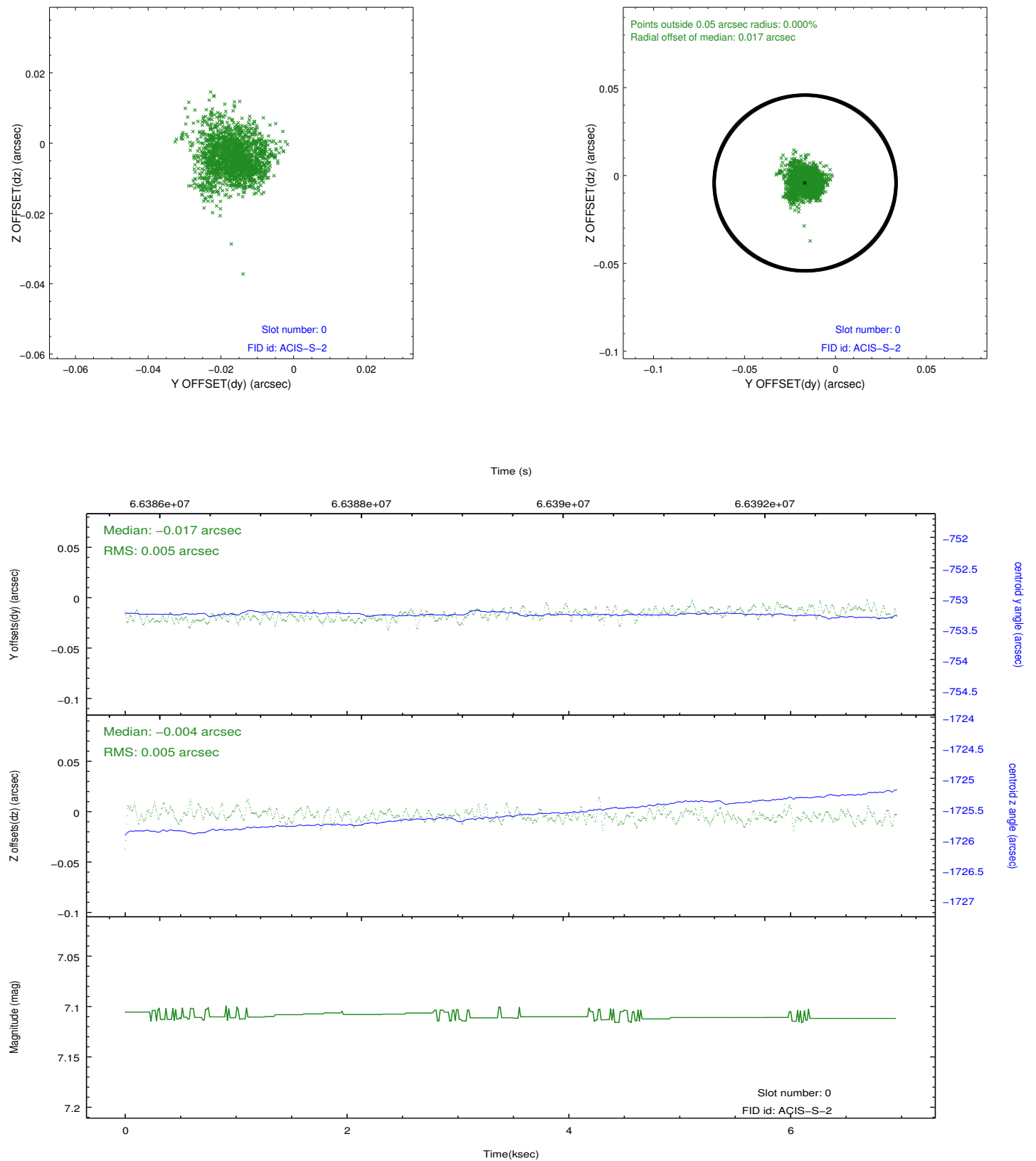


### 2.4.5 Slot 7

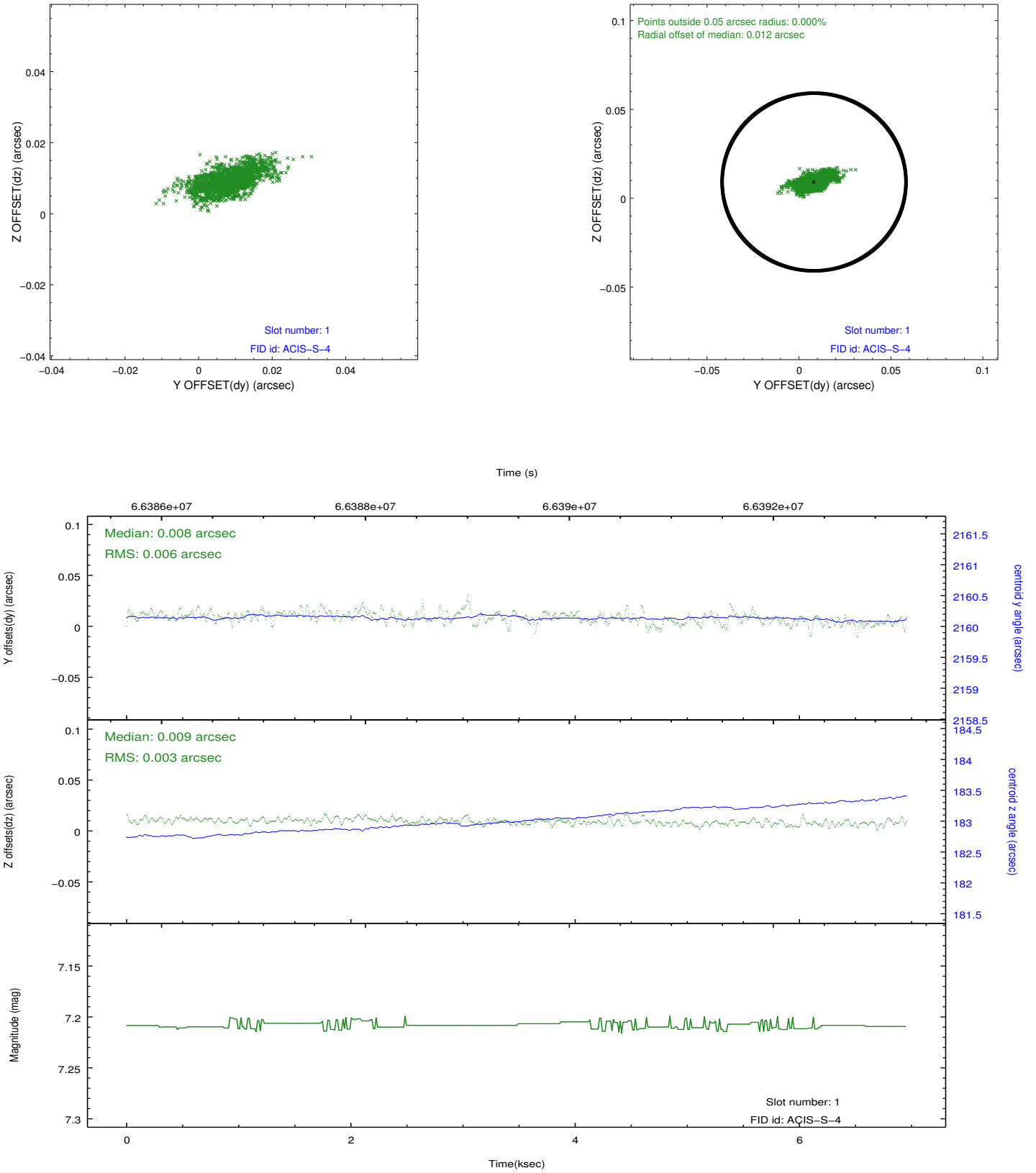


## 2.5 FID Slots

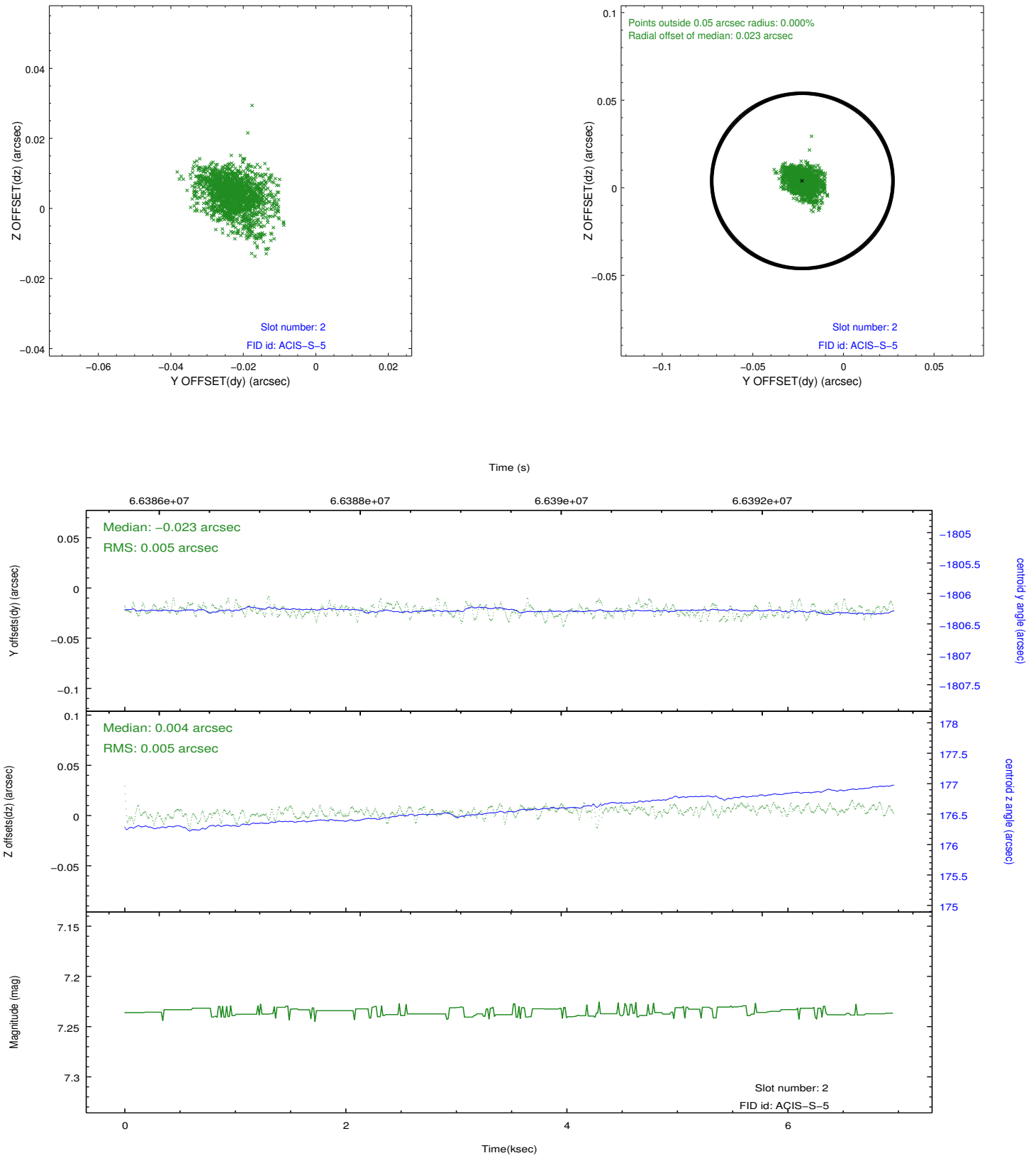
### 2.5.1 Slot 0



## 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)	2012.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.548

### A.2 Comments

Roll constraint met.