

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2180 - L2 Version 3  
Chandra X-Ray Center

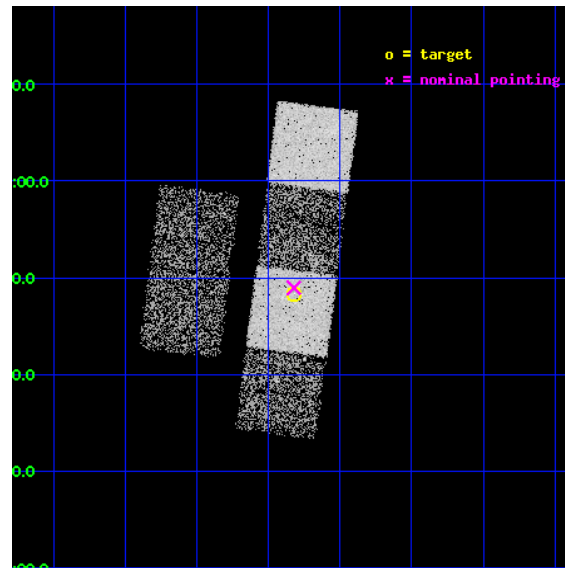
L2 Processing Date : Sep 24 2012

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# 1 Front

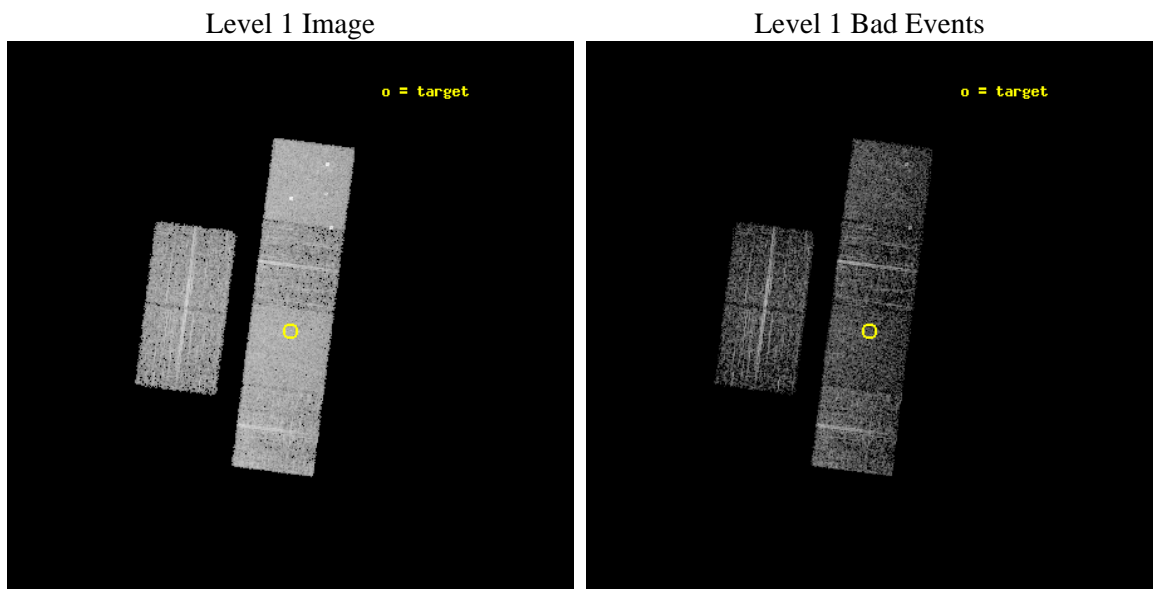
seq_num	700370	Sequence number
obs_id	2180	Observation id
title	SURVEY OF RADIO QUIET Z>4 QUASARS	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	BRI 0103+0032	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.58	Observer's specified target RA [deg]
dec_targ	0.806111	Observer's specified target Dec [deg]
ra_nom	16.580415593899	Nominal RA [deg]
dec_nom	0.8159172496944	Nominal Dec [deg]
roll_nom	97.397524437601	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3756.2494048029	Sum of GTIs [s]
livetime	3708.6855130975	Livetime [s]
ontime2	3756.2904448062	Sum of GTIs [s]
ontime3	3756.1262848079	Sum of GTIs [s]
ontime5	3756.2083647996	Sum of GTIs [s]
ontime6	3756.1673248112	Sum of GTIs [s]
ontime7	3756.2494048029	Sum of GTIs [s]
ontime8	3752.8441649675	Sum of GTIs [s]
l2events	45016	Number of level 2 events



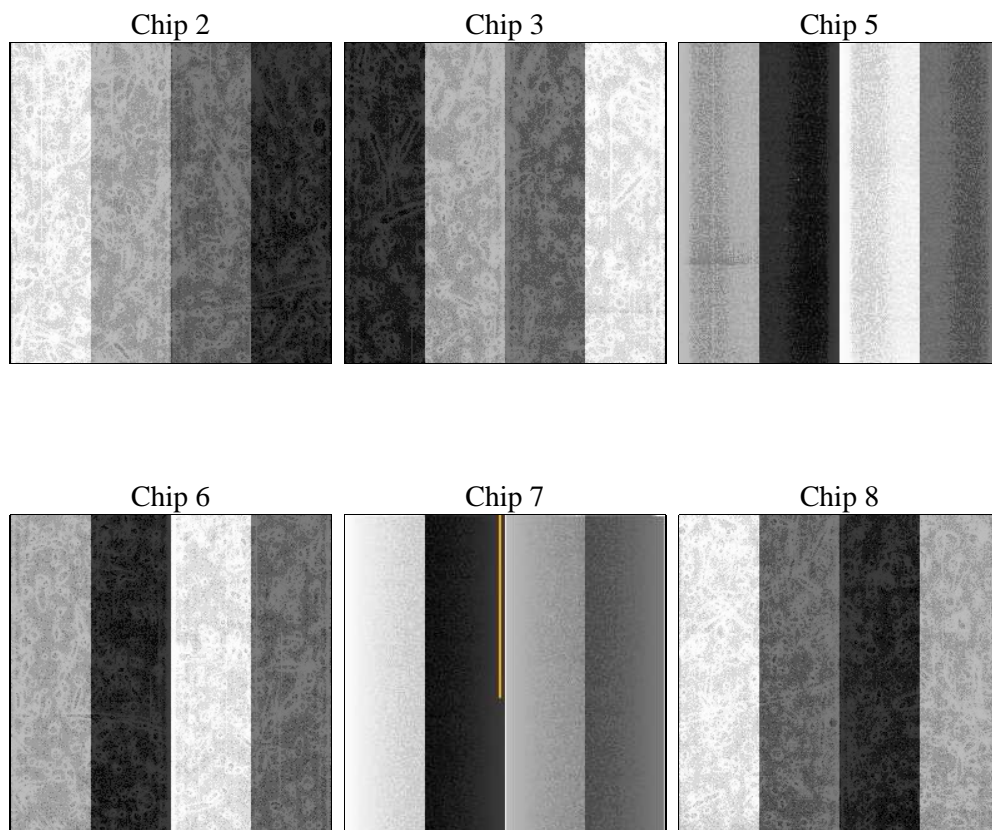
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3756.2494048029	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	3756.2904448062	Sum of GTIs [s]
date	2012-09-24T09:39:46	Date and time of file creation	ontime3	3756.1262848079	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3756.2083647996	Sum of GTIs [s]
			ontime6	3756.1673248112	Sum of GTIs [s]
			ontime7	3756.2494048029	Sum of GTIs [s]
			ontime8	3752.8441649675	Sum of GTIs [s]
			l1events	182659	Number of level 1 events

### 2.1.4 Events

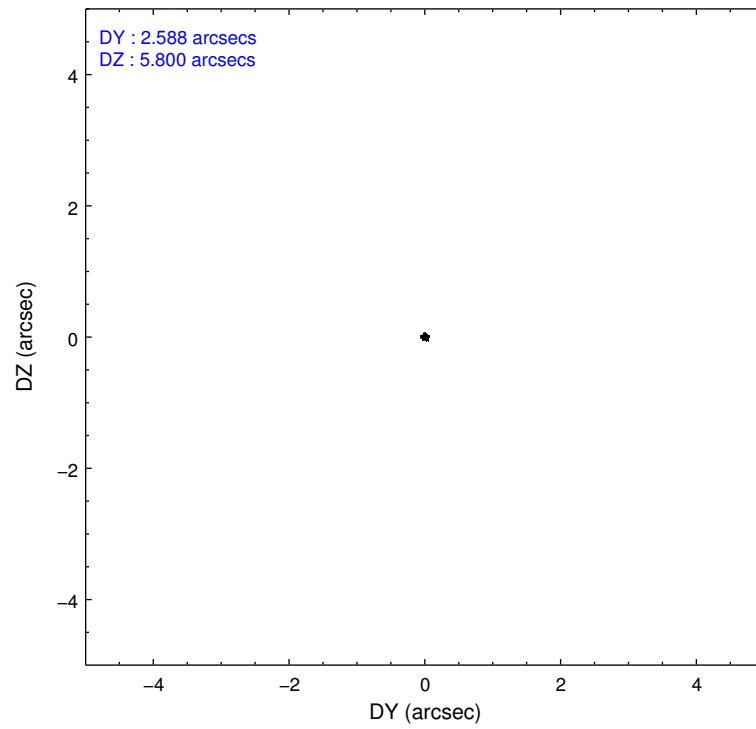
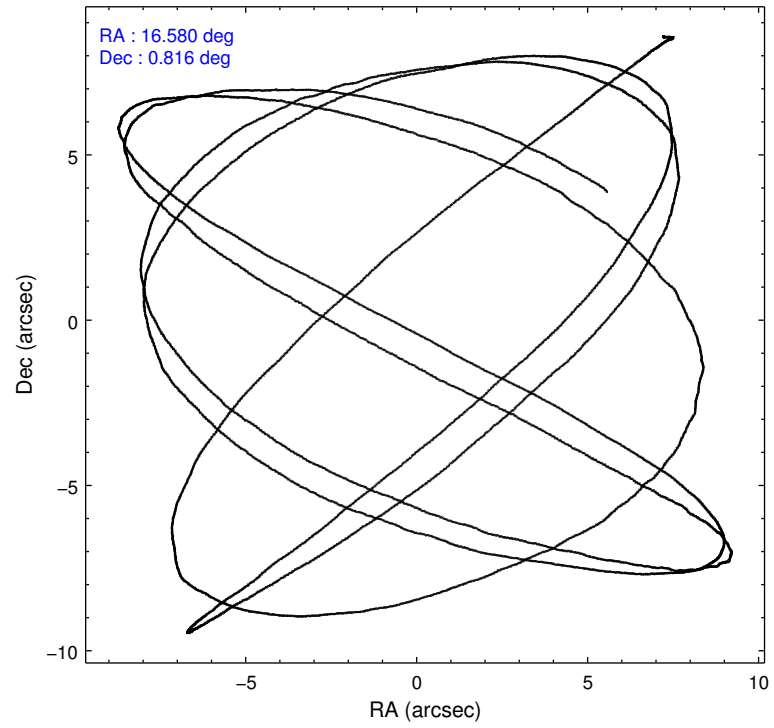
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	24955	24563	39848	23886	35635	33772	grade 0 events	1141	1187	2869	1383	1857	1942
rejected events	22233	21844	19463	20790	18573	27572		4%	4%	7%	5%	5%	5%
rejected %	89%	88%	48%	87%	52%	81%	grade 1 events	12	19	107	11	32	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	595	558	5904	570	3407	1297
								2%	2%	14%	2%	9%	3%
							grade 3 events	252	245	941	298	1400	596
								1%	0%	2%	1%	3%	1%
							grade 4 events	269	258	892	282	1438	622
								1%	1%	2%	1%	4%	1%
							grade 5 events	828	927	2858	1014	2985	1314
								3%	3%	7%	4%	8%	3%
							grade 6 events	466	476	9805	563	8976	1746
								1%	1%	24%	2%	25%	5%
							grade 7 events	21392	20893	16472	19765	15540	26226
								85%	85%	41%	82%	43%	77%

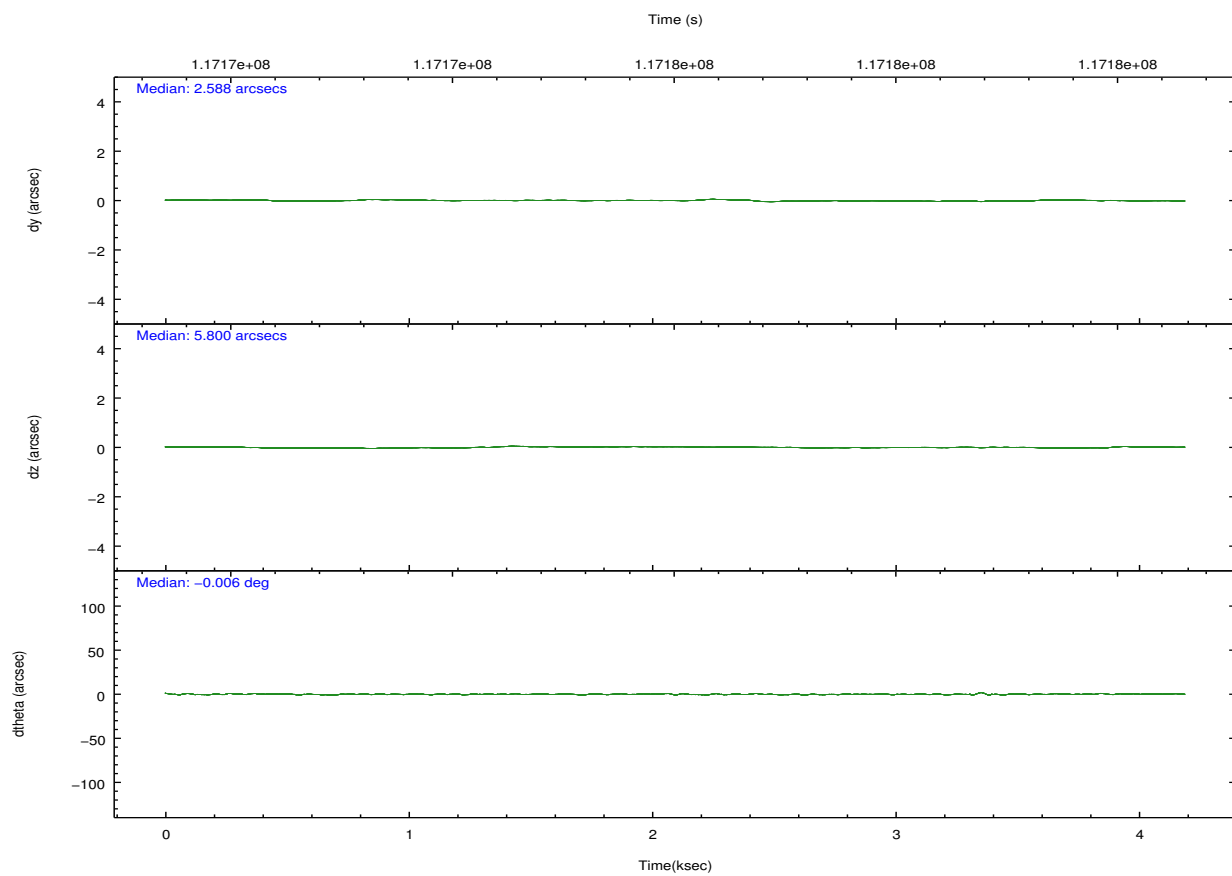
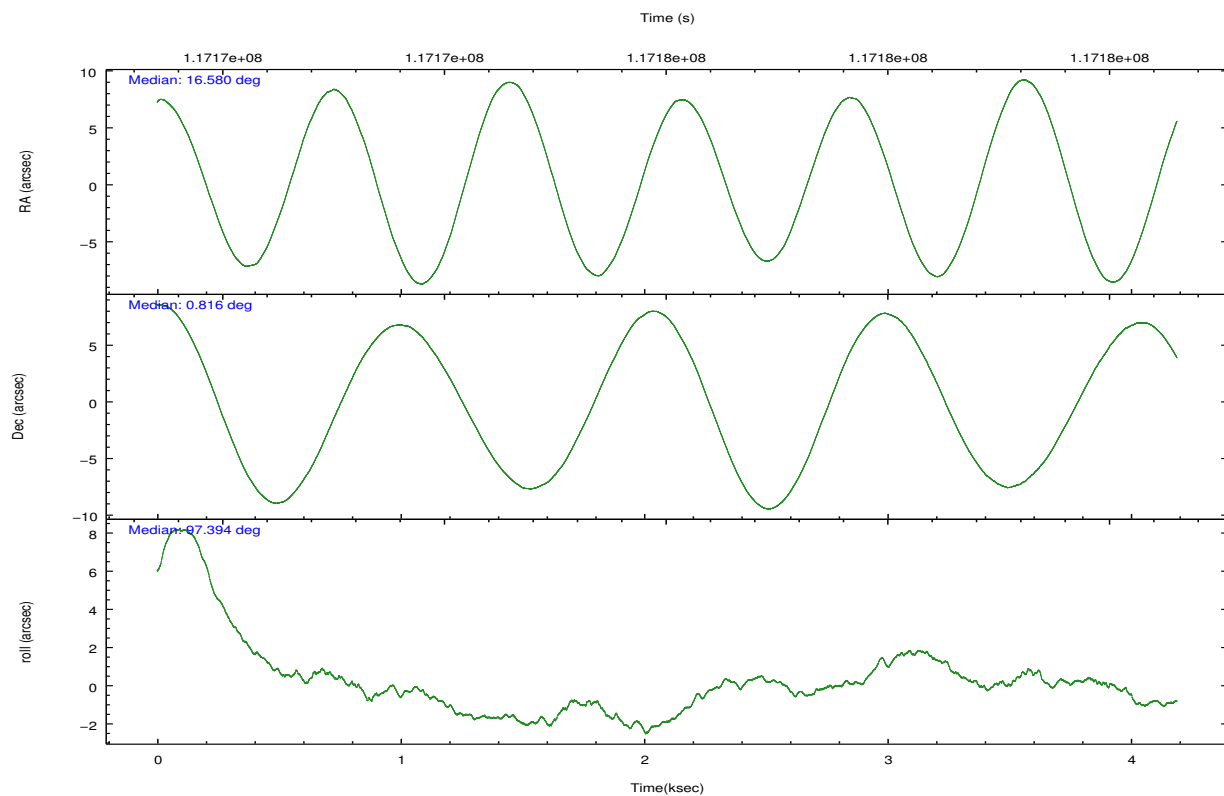


## 2.2 Compared Parameters

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.597289	16.58041559389937	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.794368	0.8159172496943985	Alternating exposures requested	N	N
[deg] Pointing Roll	97.240645	97.39752443760067	[s] Primary exposure time	0.000000	3.2
[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)	117173098.184000	117172670.56326			
Observation start date	2001-09-18T04:03:54	2001-09-18T03:57:50			
[s] Observation end time (MET)	117177098.184000	117177787.87596			
Observation end date	2001-09-18T05:10:34	2001-09-18T05:23:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



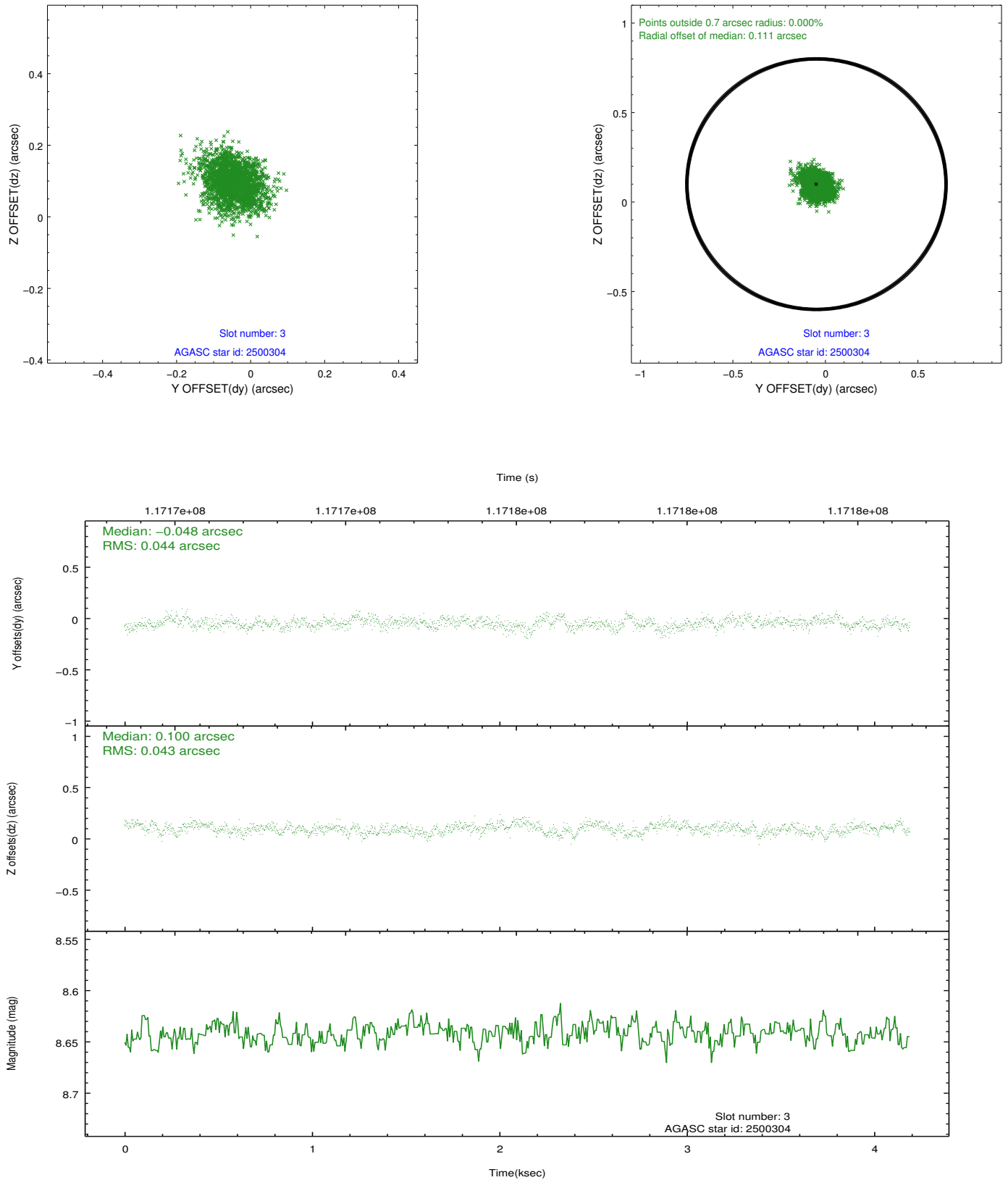


### Slot Statistics

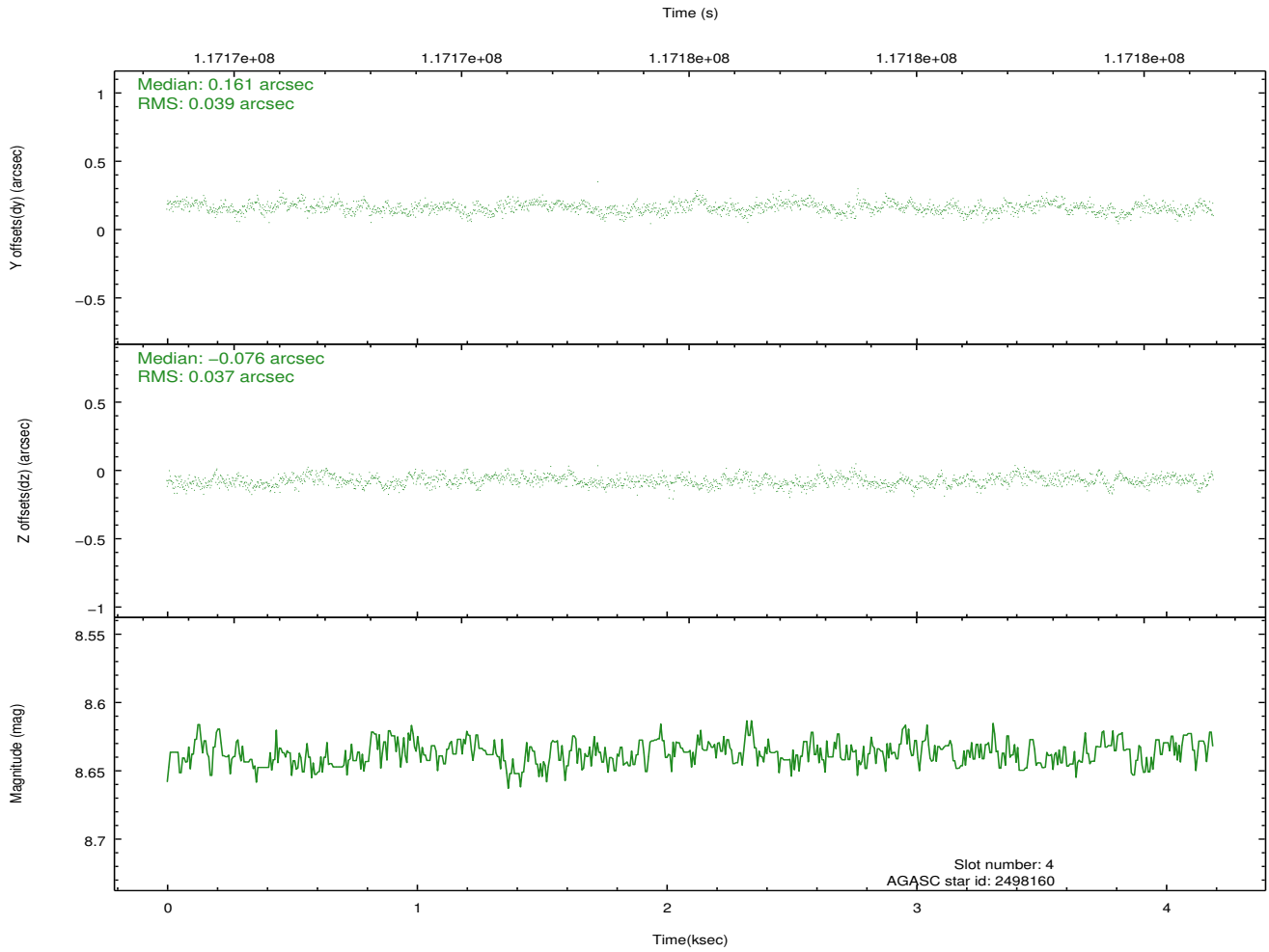
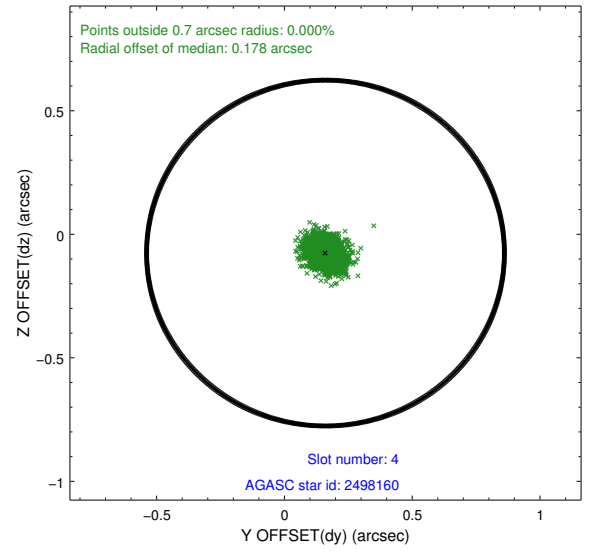
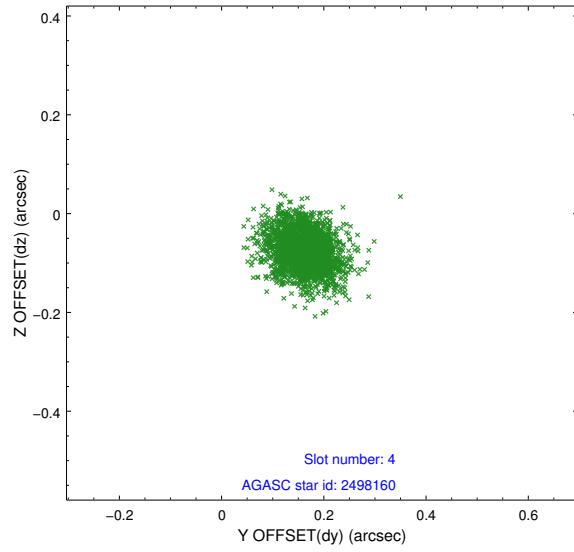
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1022	-0.038	-0.001	0.006	0.010	0.000000	0.000000	-755.21	-1726.96
1	FID	ACIS-S-4	7.20	1022	-0.017	0.019	0.005	0.009	0.000000	0.000000	2157.37	180.10
2	FID	ACIS-S-5	7.24	1022	0.023	-0.009	0.006	0.011	0.000000	0.000000	-1806.13	175.32
3	GUIDE	2500304	8.64	2045	-0.048	0.100	0.066	0.108	16.571799	1.448277	2346.08	-206.28
4	GUIDE	2498160	8.64	2043	0.161	-0.076	0.056	0.093	16.460620	0.343812	-1546.53	691.44
5	GUIDE	2496872	8.85	2045	-0.108	0.055	0.069	0.107	16.933662	1.413437	2056.86	-1482.22
6	GUIDE	2493488	8.70	2044	0.058	-0.149	0.060	0.097	16.409472	1.201006	1537.73	484.49
7	GUIDE	2492416	8.83	2044	-0.060	0.073	0.062	0.102	16.803588	1.355176	1909.29	-991.44

## 2.4 Star Slots

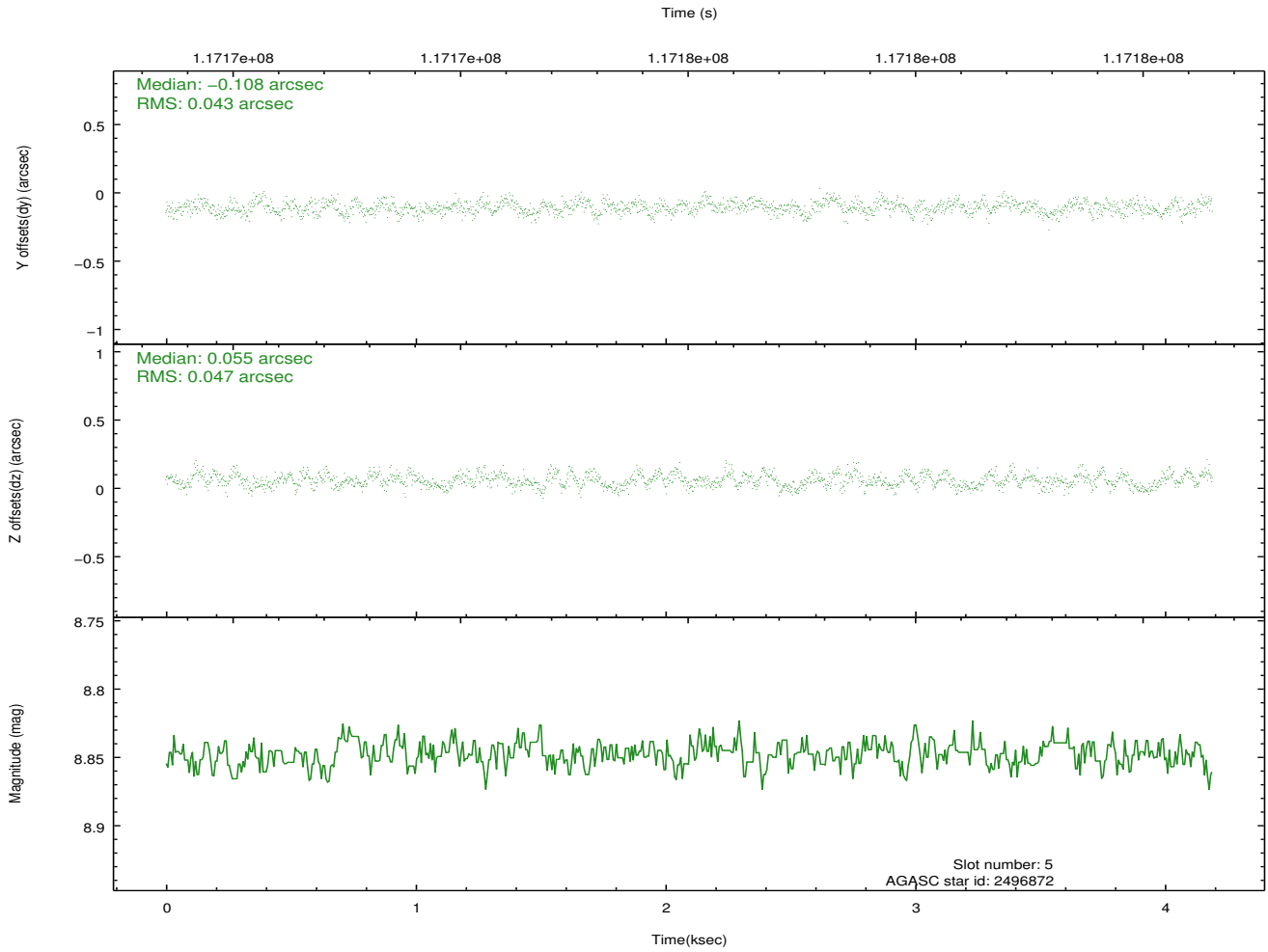
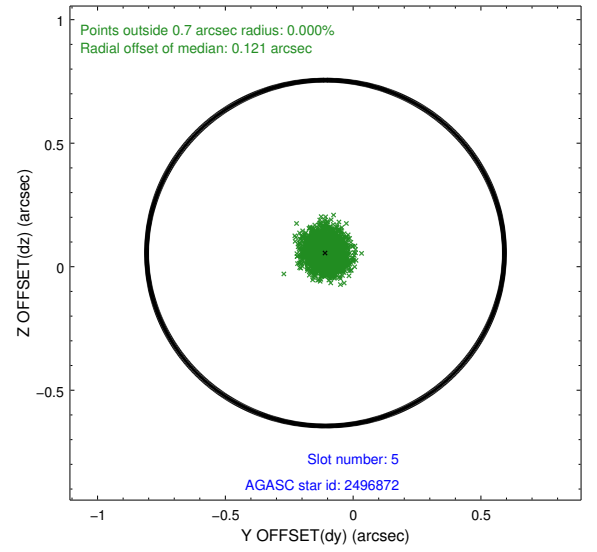
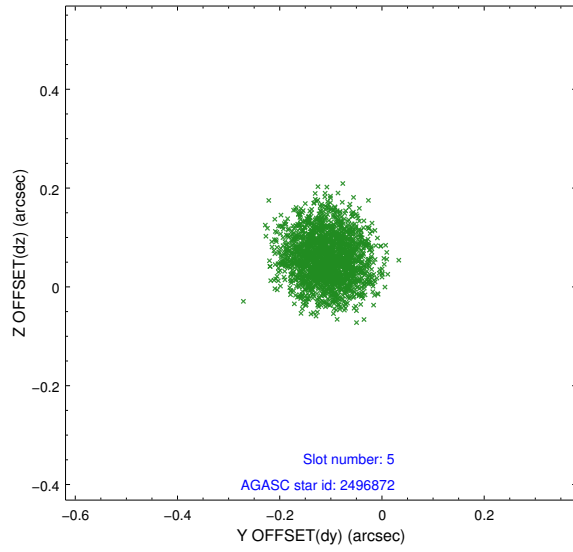
### 2.4.1 Slot 3



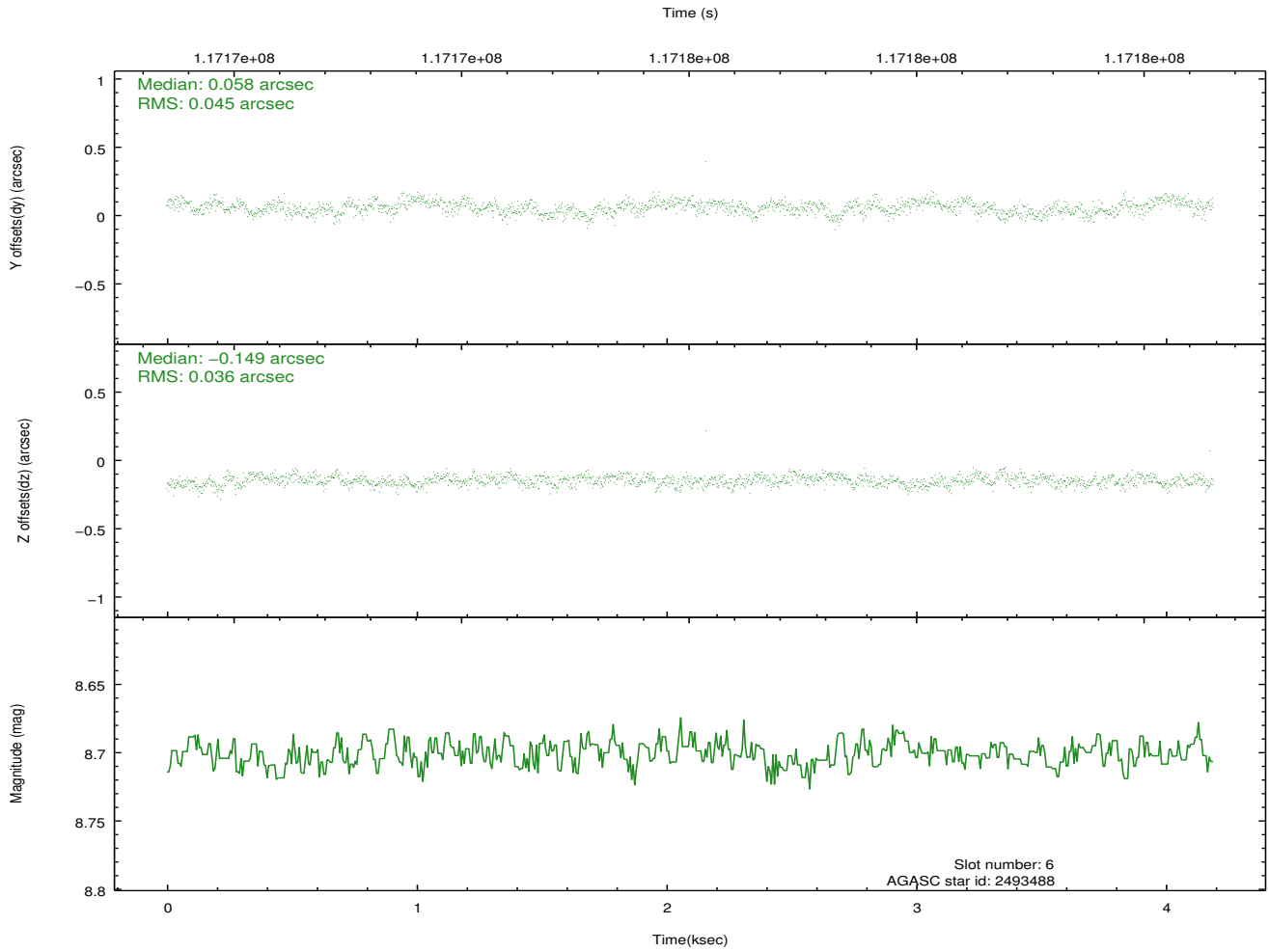
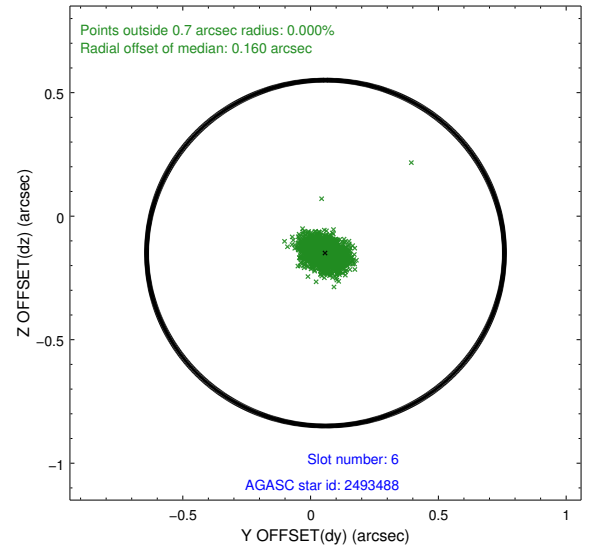
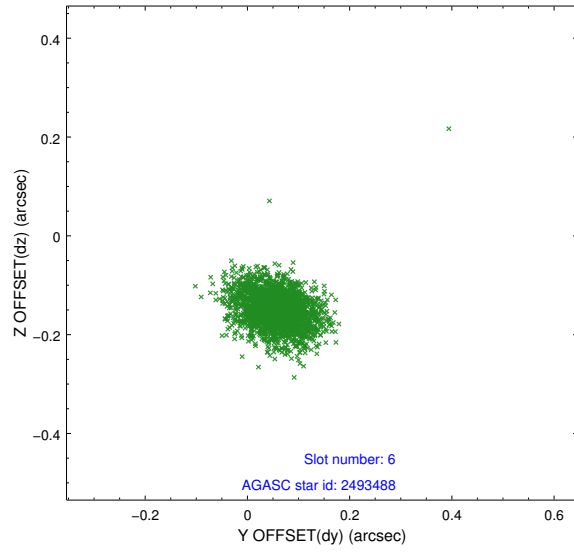
## 2.4.2 Slot 4



### 2.4.3 Slot 5

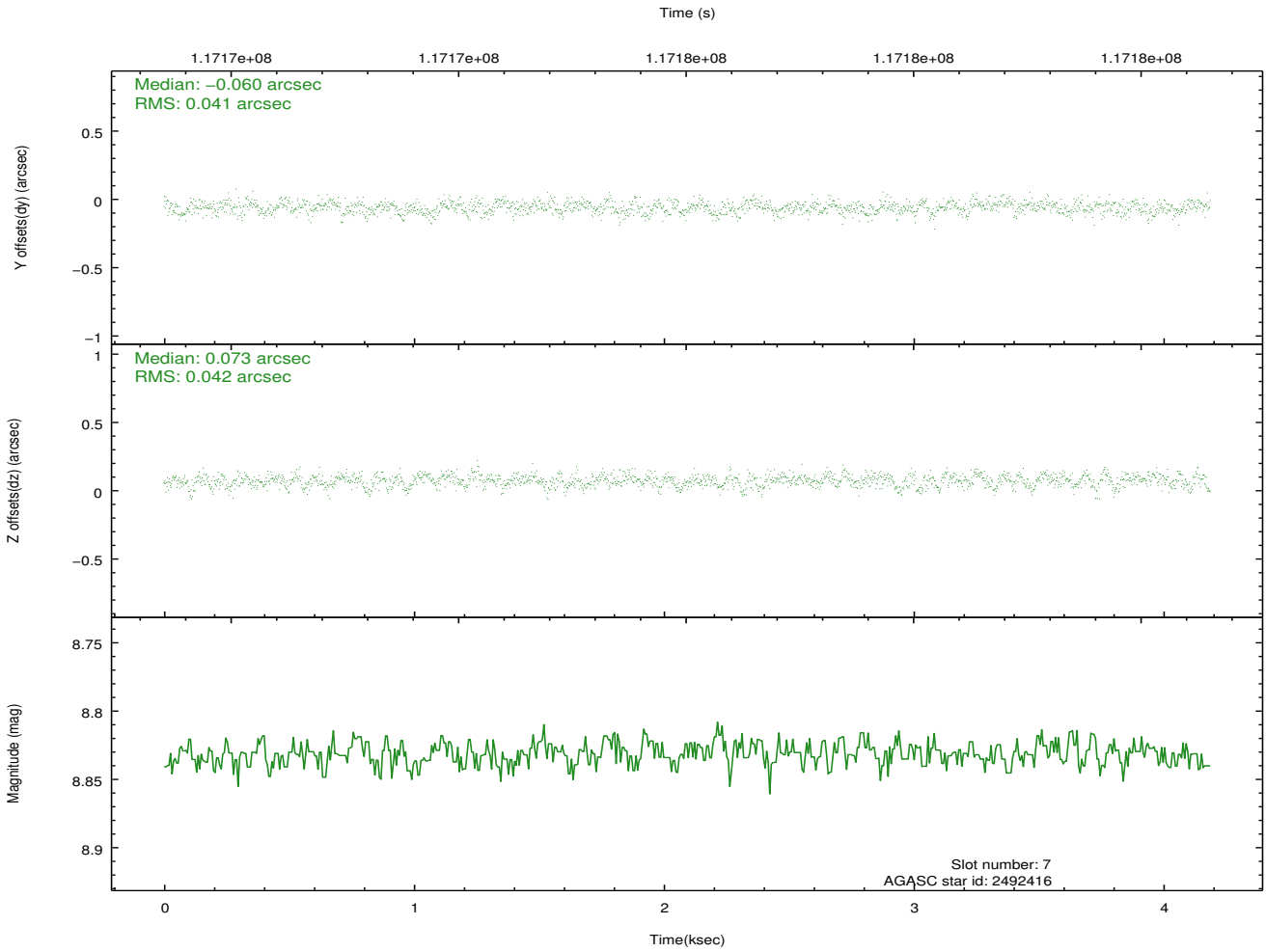
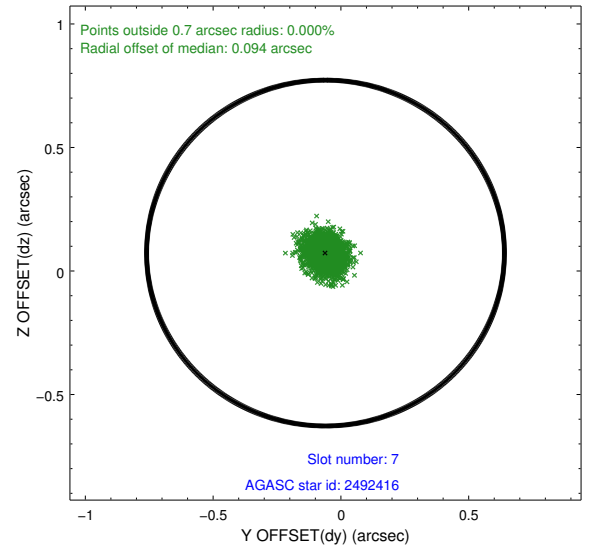
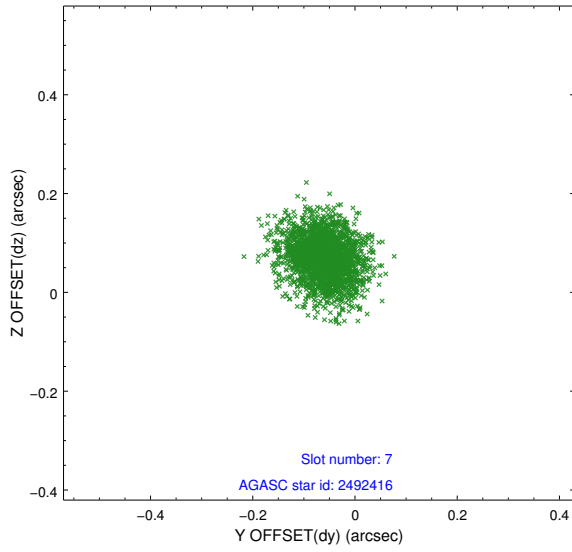


## 2.4.4 Slot 6



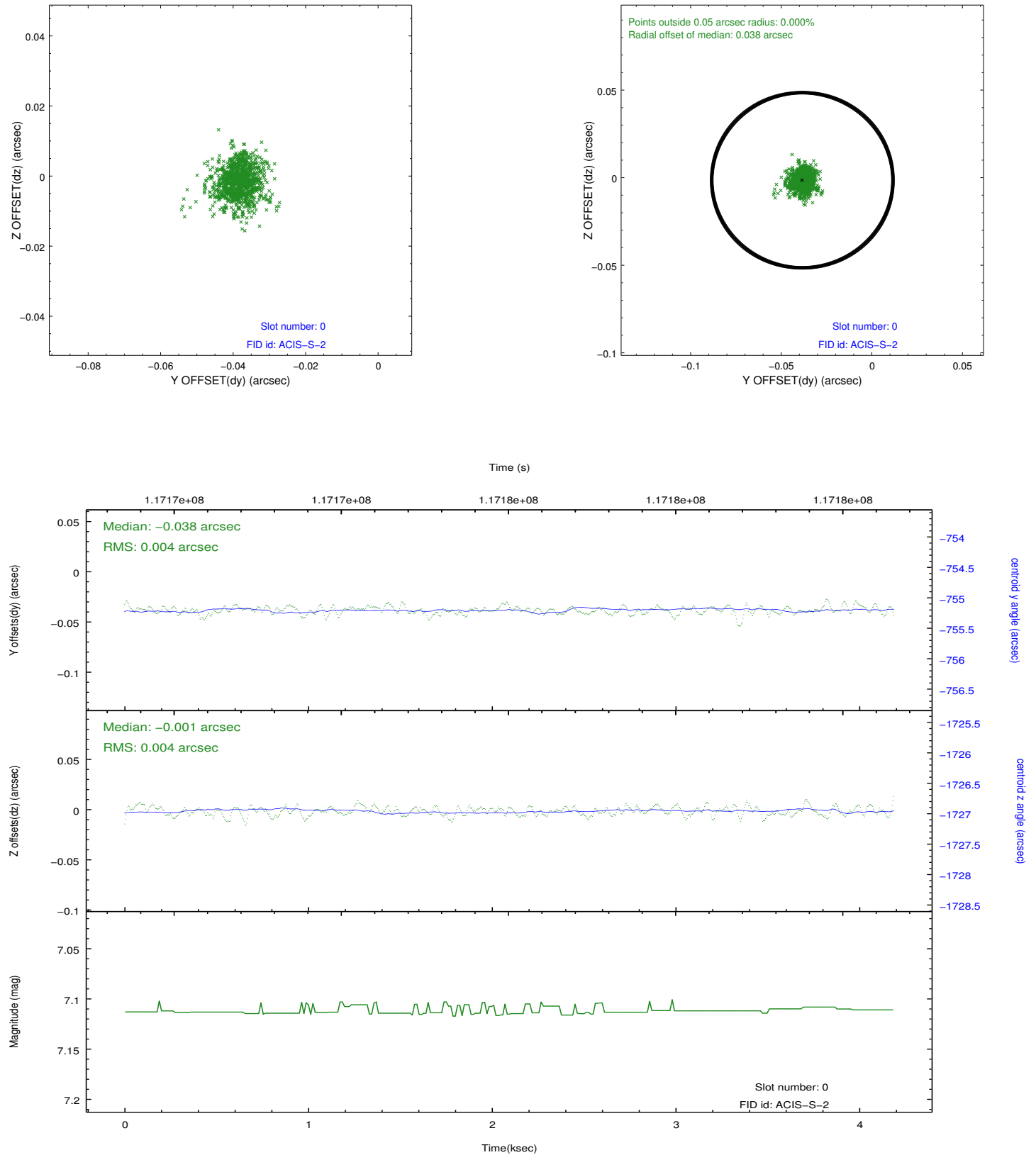


## 2.4.5 Slot 7

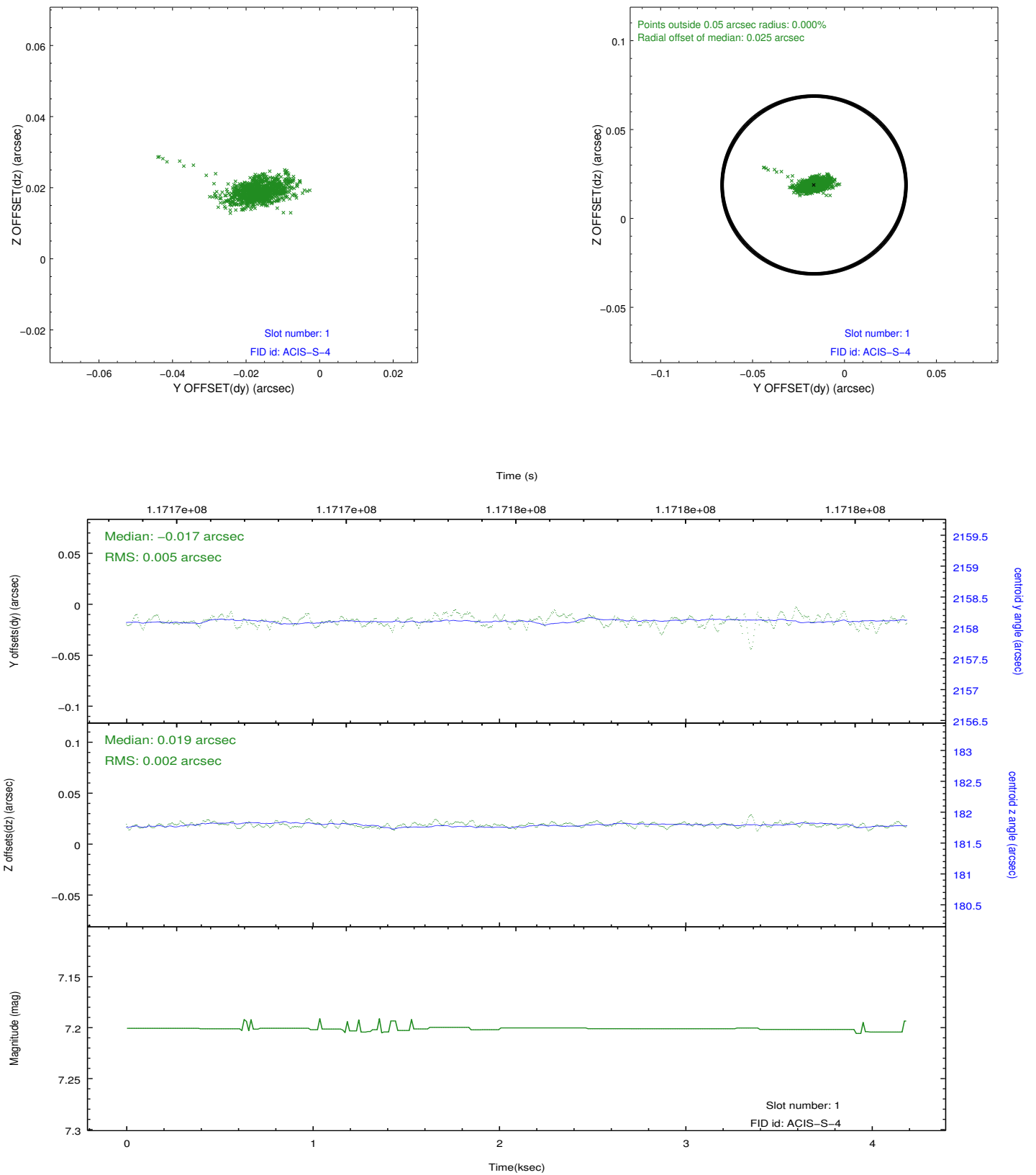


## 2.5 FID Slots

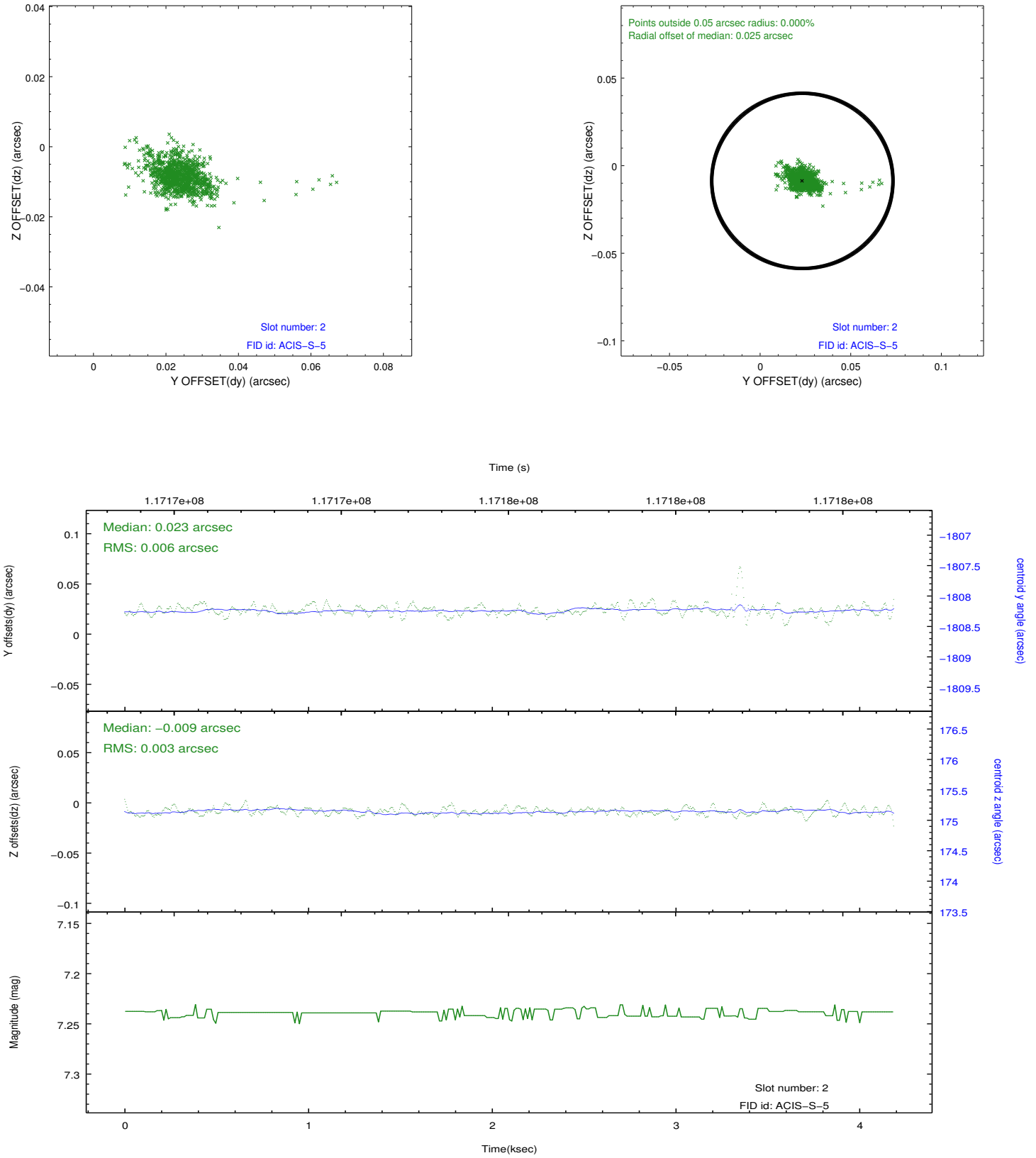
### 2.5.1 Slot 0



## 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)	2012.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.757

### A.2 Comments