

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10742 - L2 Version 2  
Chandra X-Ray Center

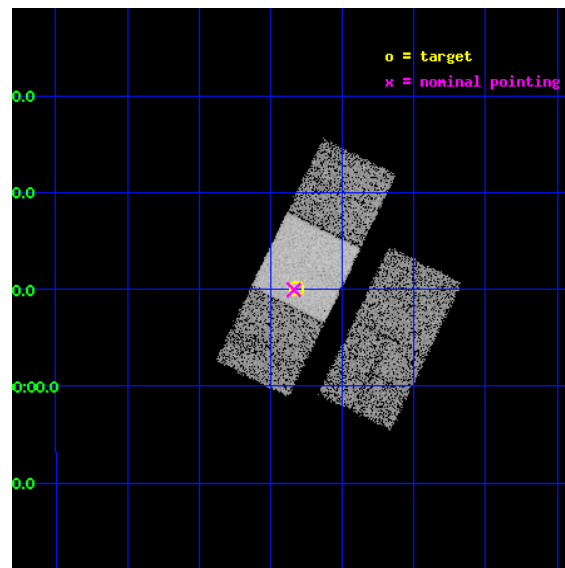
L2 Processing Date : May 28 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

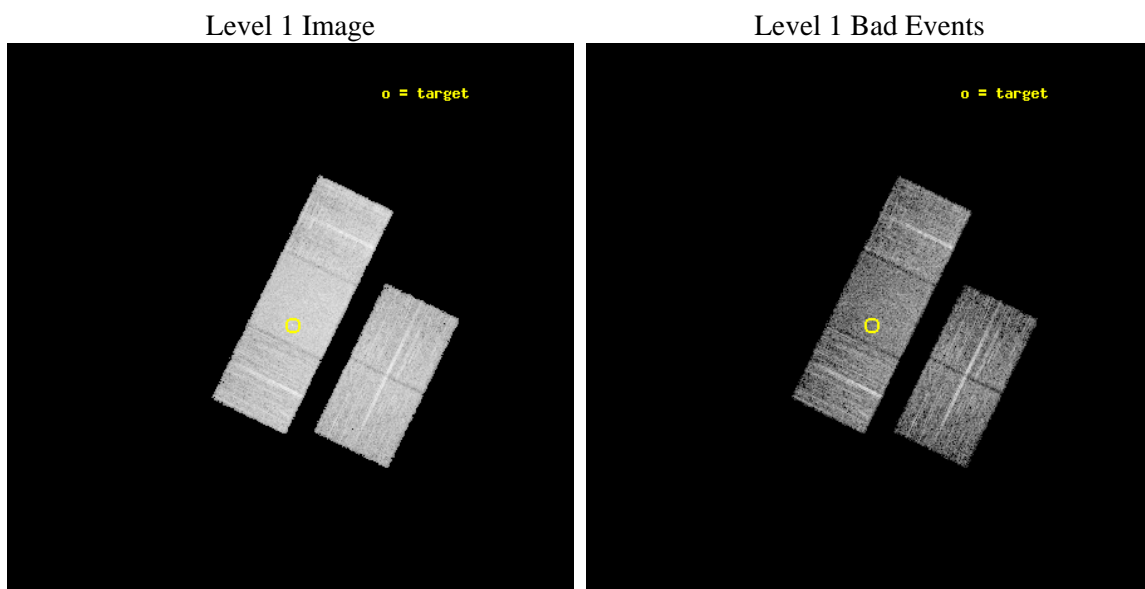
seq_num	701972	Sequence number
obs_id	10742	Observation id
title	A Chandra Snapshot Survey of Bright Mini-BAL Quasars	Proposal titl
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J224649.29-004954.3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	341.705417	Observer's specified target RA [deg]
dec_targ	-0.83175	Observer's specified target Dec [deg]
ra_nom	341.70954161265	Nominal RA [deg]
dec_nom	-0.83425628632044	Nominal Dec [deg]
roll_nom	296.05364593573	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5170.8000397682	Sum of GTIs [s]
livetime	5103.239730561	Livetime [s]
ontime2	5170.8000397682	Sum of GTIs [s]
ontime3	5167.6590794325	Sum of GTIs [s]
ontime6	5167.6590694785	Sum of GTIs [s]
ontime7	5170.8000397682	Sum of GTIs [s]
ontime8	5170.8000397682	Sum of GTIs [s]
l2events	56414	Number of level 2 events



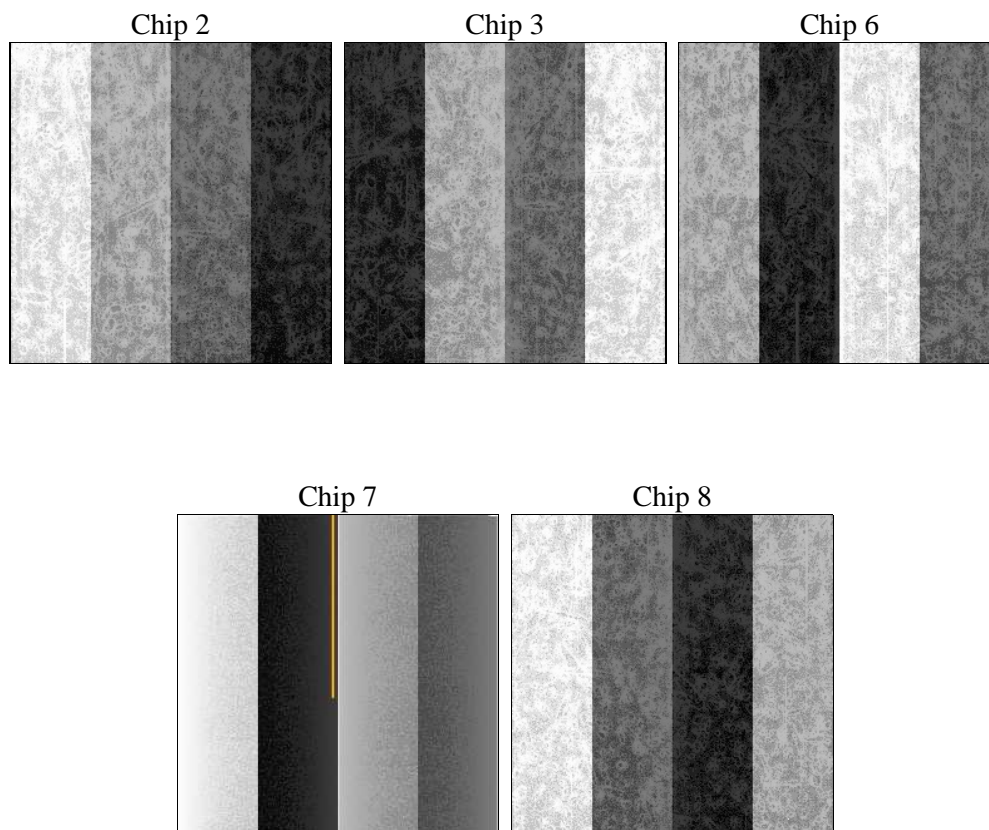
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5170.8000397682	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5170.8000397682	Sum of GTIs [s]
date	2012-05-28T11:45:27	Date and time of file creation	ontime3	5167.6590794325	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	5167.6590694785	Sum of GTIs [s]
			ontime7	5170.8000397682	Sum of GTIs [s]
			ontime8	5170.8000397682	Sum of GTIs [s]
			l1events	367747	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	60789	62212	67957	92331	84458
rejected events	53918	55301	60801	60742	67815
rejected %	88%	88%	89%	65%	80%

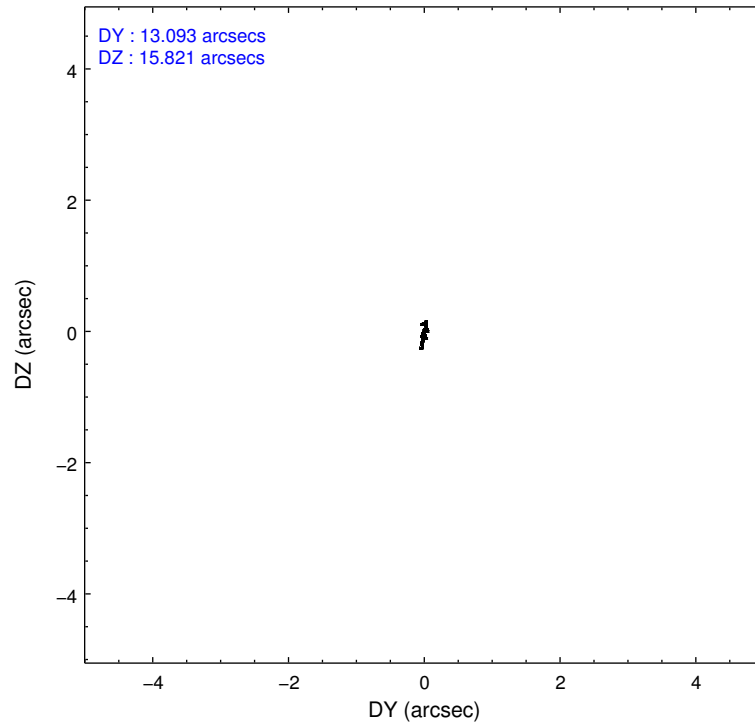
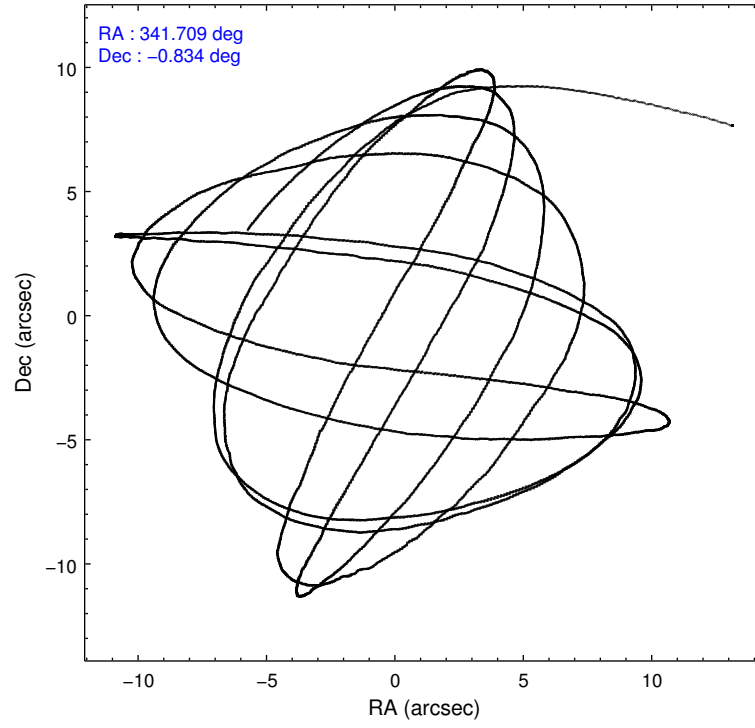
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4155	3971	3783	3396	6734
	6%	6%	5%	3%	7%
grade 1 events	61	47	46	93	83
	0%	0%	0%	0%	0%
grade 2 events	1663	1739	1856	7925	4509
	2%	2%	2%	8%	5%
grade 3 events	704	696	753	3316	2092
	1%	1%	1%	3%	2%
grade 4 events	726	769	797	3197	1970
	1%	1%	1%	3%	2%
grade 5 events	2541	2964	3133	8771	3958
	4%	4%	4%	9%	4%
grade 6 events	1219	1422	1614	21375	5359
	2%	2%	2%	23%	6%
grade 7 events	49720	50604	55975	44258	59753
	81%	81%	82%	47%	70%

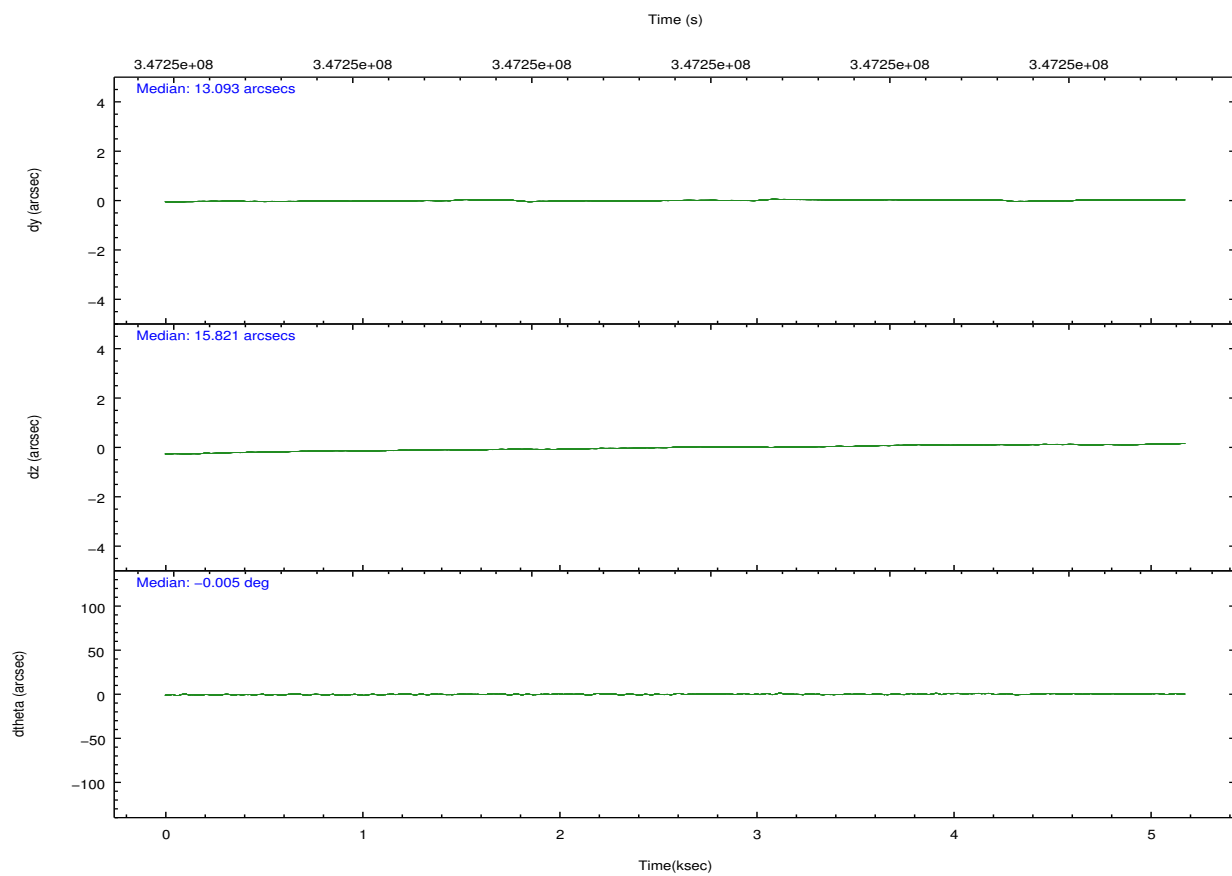
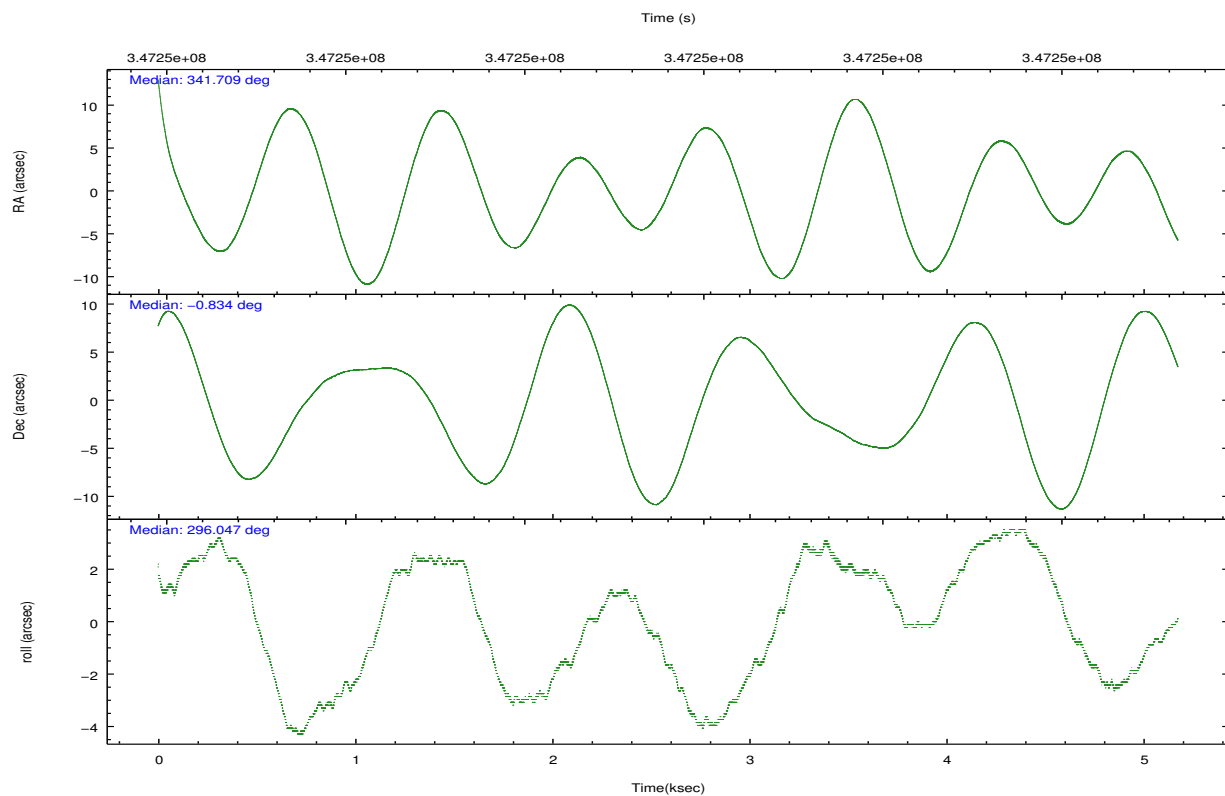


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	341.686629	341.7095416126509	CCD I2 on	O1	Y
[deg] Pointing Dec	-0.819376	-0.8342562863204446	CCD I3 on	O2	Y
[deg] Pointing Roll	295.896694	296.0536459357264	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	347246380.184000	347244765.98961	CCD S5 on	N	N
Observation start date	2009-01-02T01:18:34	2009-01-02T00:52:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	347251380.184000	347252132.66498	On-chip summing requested	N	N
Observation end date	2009-01-02T02:41:54	2009-01-02T02:55:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



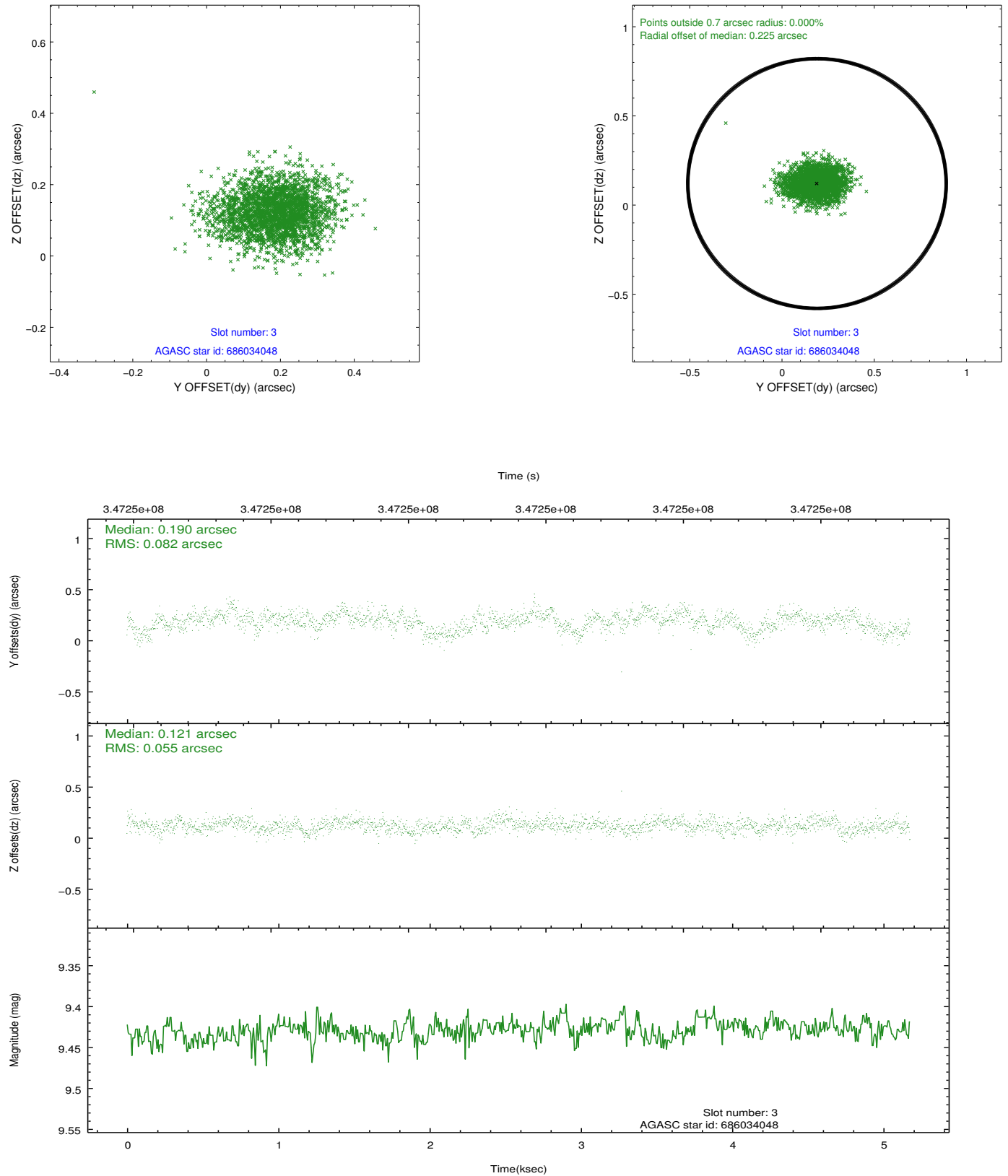


### Slot Statistics

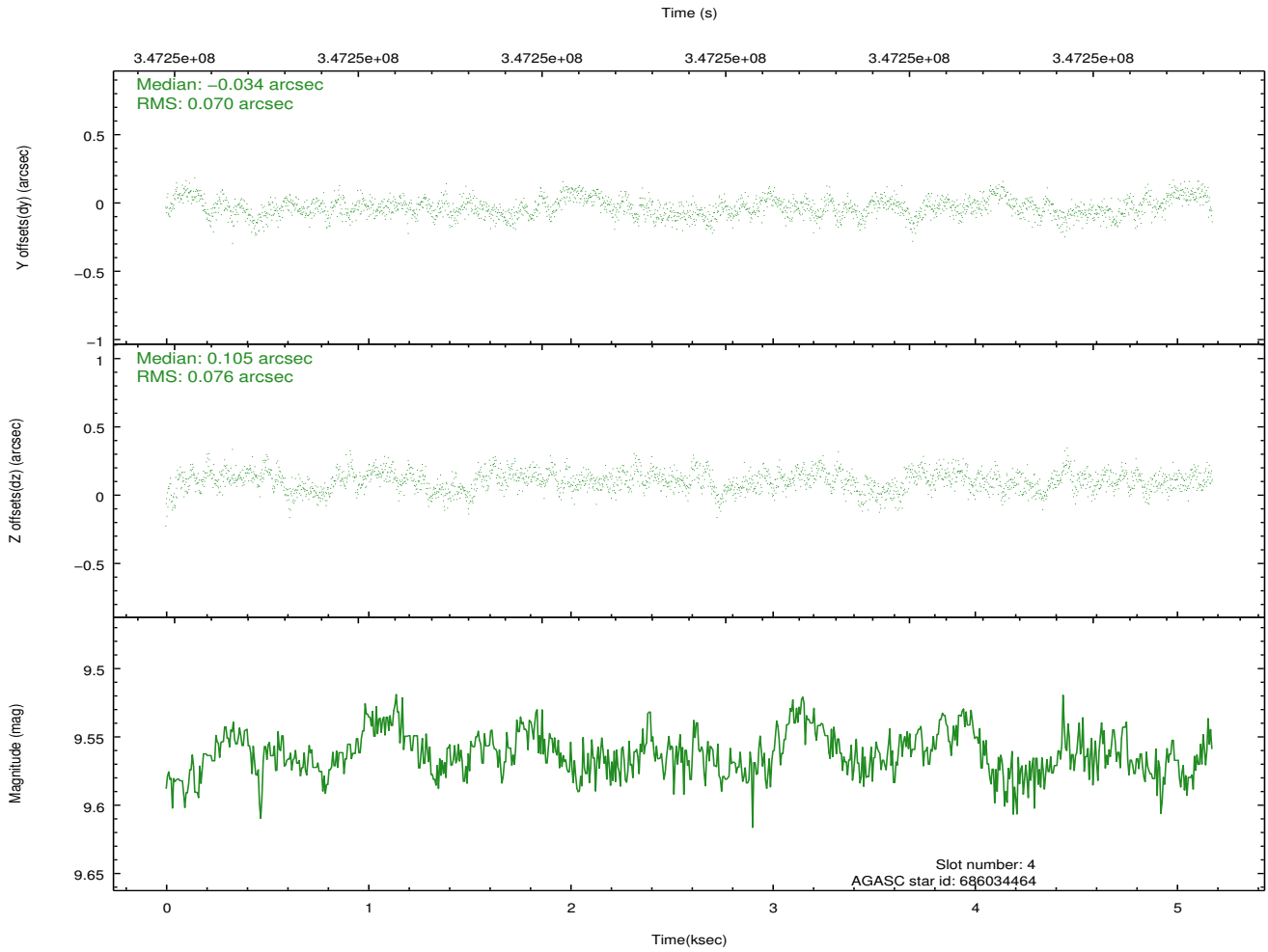
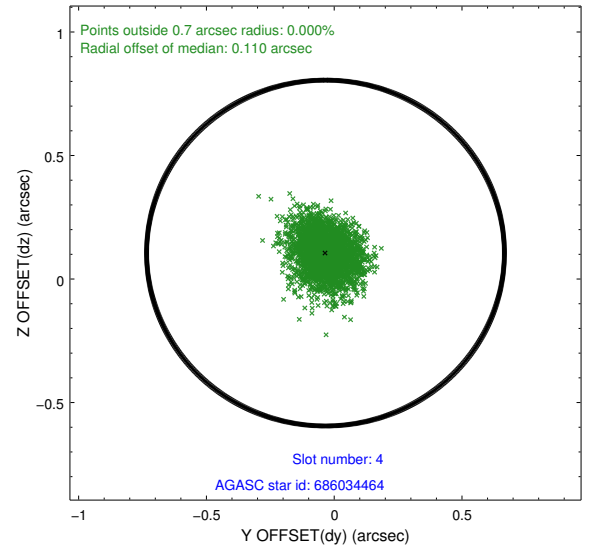
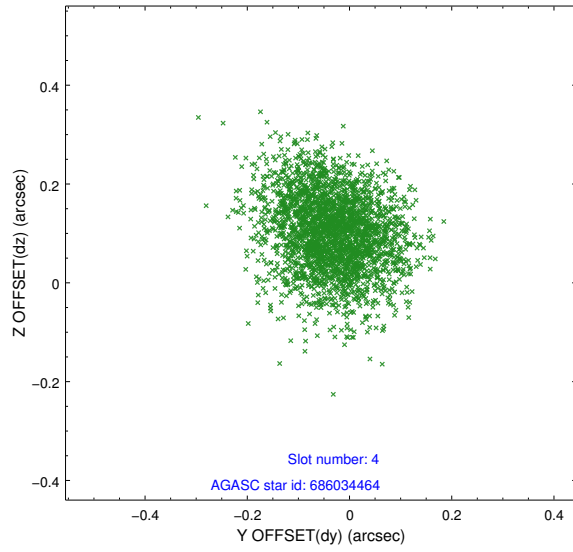
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	1263	-0.041	-0.012	0.006	0.010	0.000000	0.000000	-766.03	-1737.17
1	FID	ACIS-S-4	7.00	1263	0.161	0.023	0.005	0.010	0.000000	0.000000	2146.89	170.17
2	FID	ACIS-S-5	7.03	1263	-0.151	-0.003	0.006	0.011	0.000000	0.000000	-1817.51	165.10
3	GUIDE	686034048	9.43	2521	0.190	0.121	0.103	0.172	342.149027	-1.257057	2145.09	809.07
4	GUIDE	686034464	9.56	2520	-0.034	0.105	0.110	0.180	342.178510	-0.470205	-356.13	2142.26
5	GUIDE	686034832	9.21	2526	-0.149	0.067	0.090	0.144	341.218132	-0.486473	-1813.93	-992.95
6	GUIDE	686035720	8.23	2526	0.069	-0.116	0.062	0.097	341.333665	-1.178639	609.04	-1708.19
7	GUIDE	686038768	7.73	2525	-0.071	-0.173	0.066	0.102	341.251560	-0.731891	-966.09	-1271.28

## 2.4 Star Slots

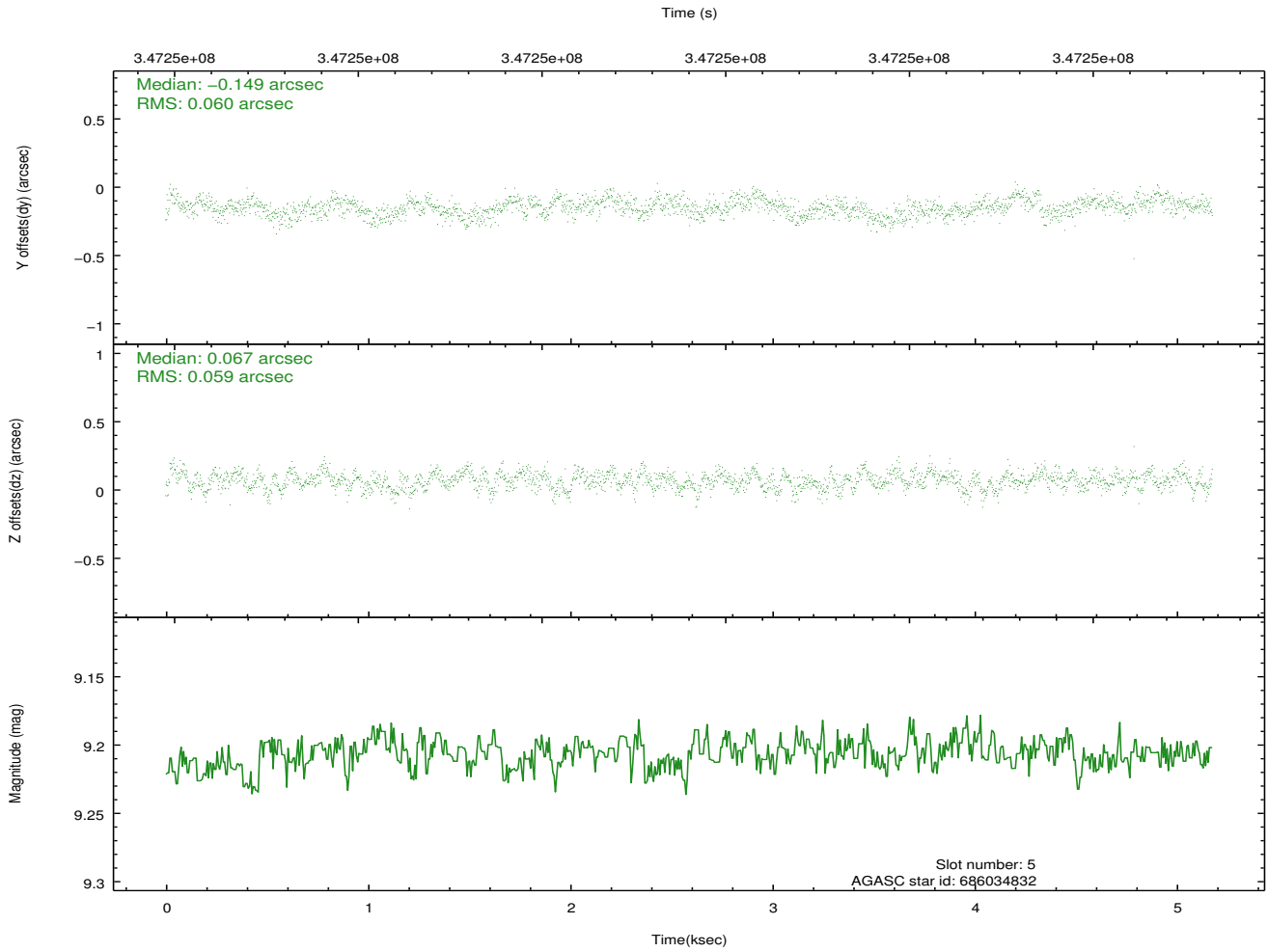
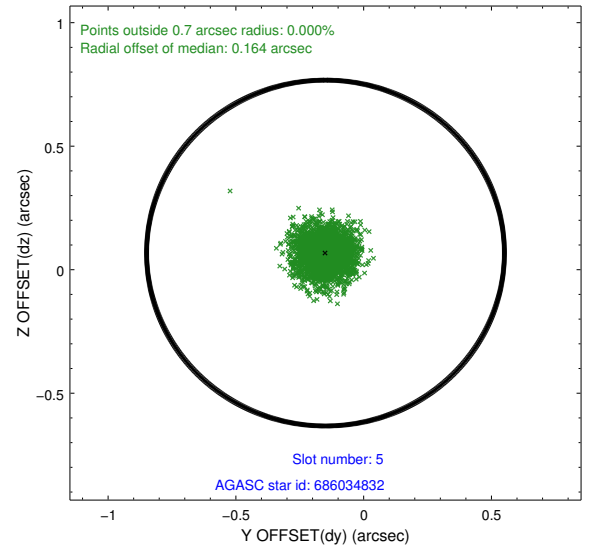
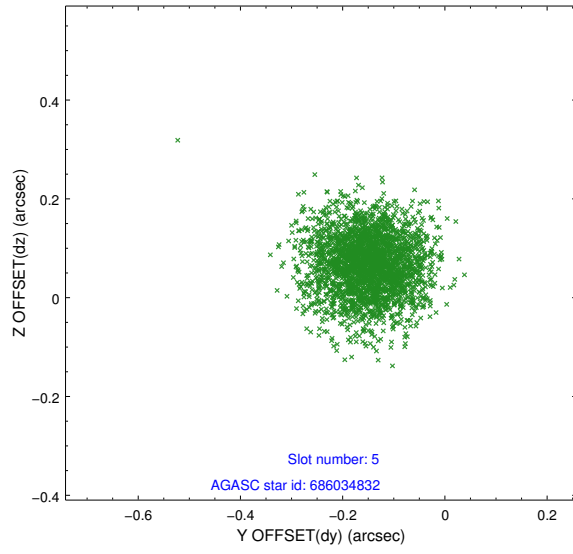
### 2.4.1 Slot 3



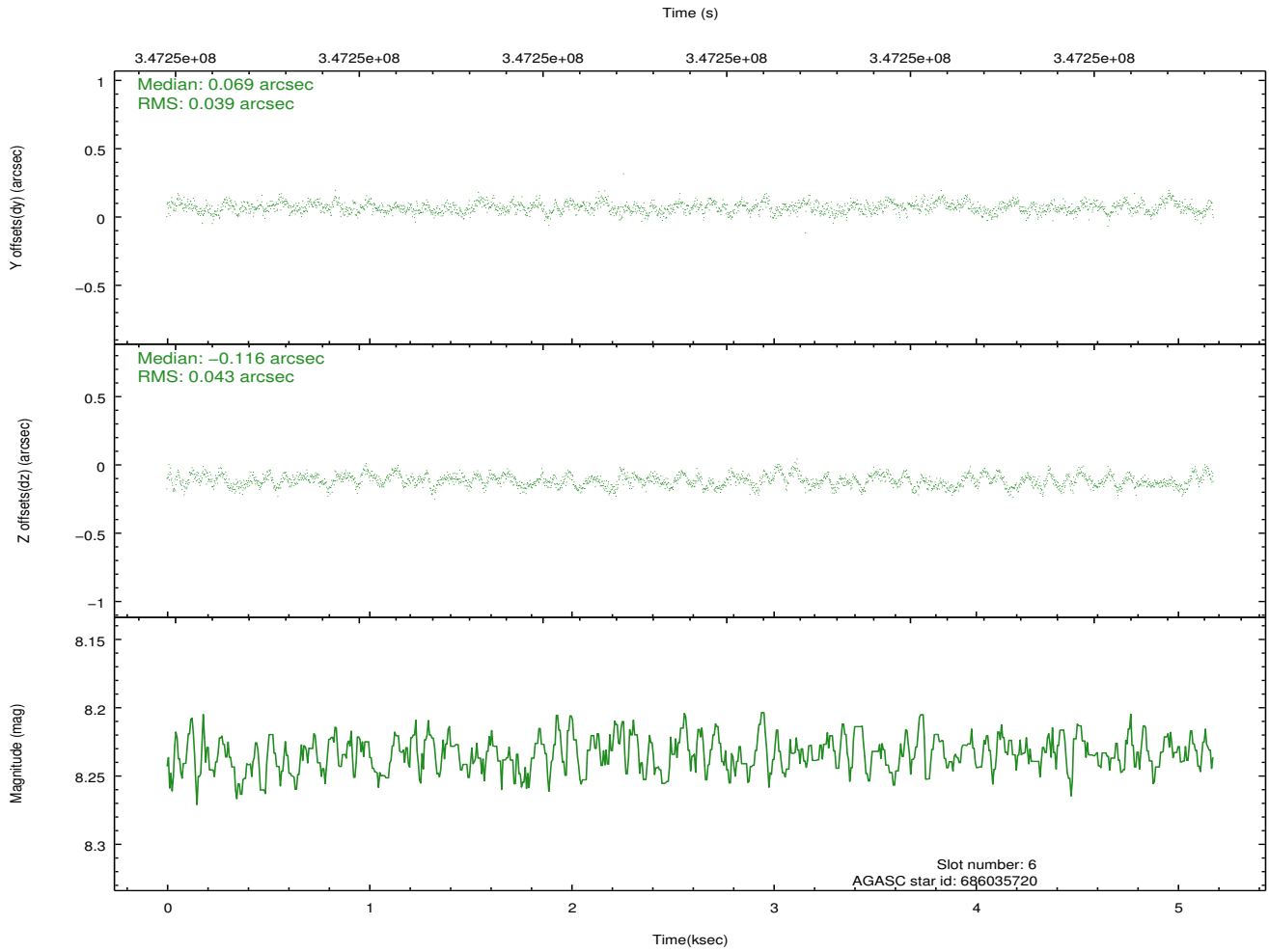
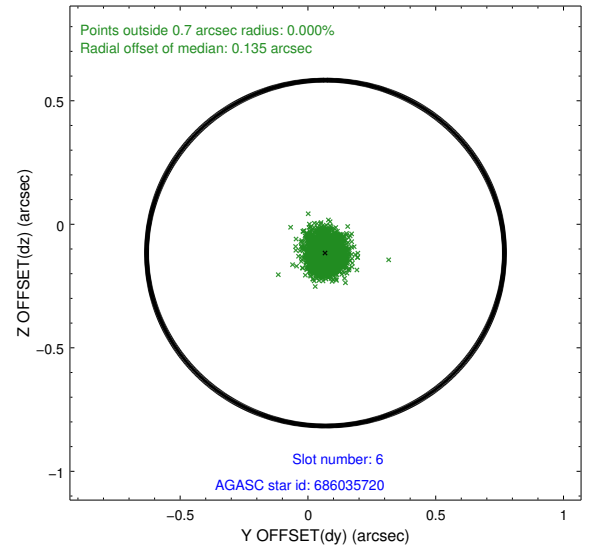
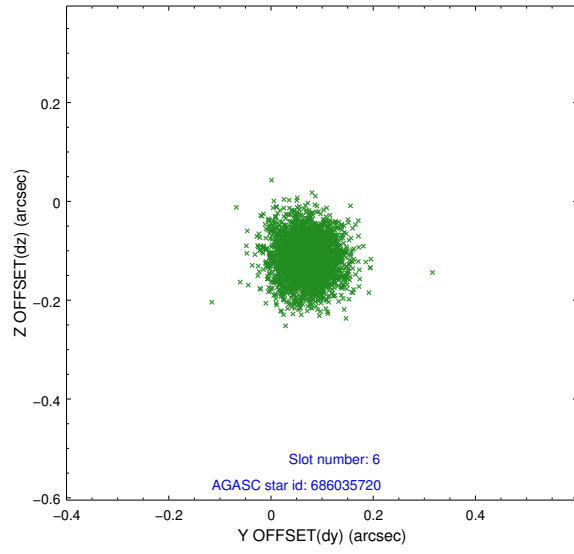
## 2.4.2 Slot 4



### 2.4.3 Slot 5

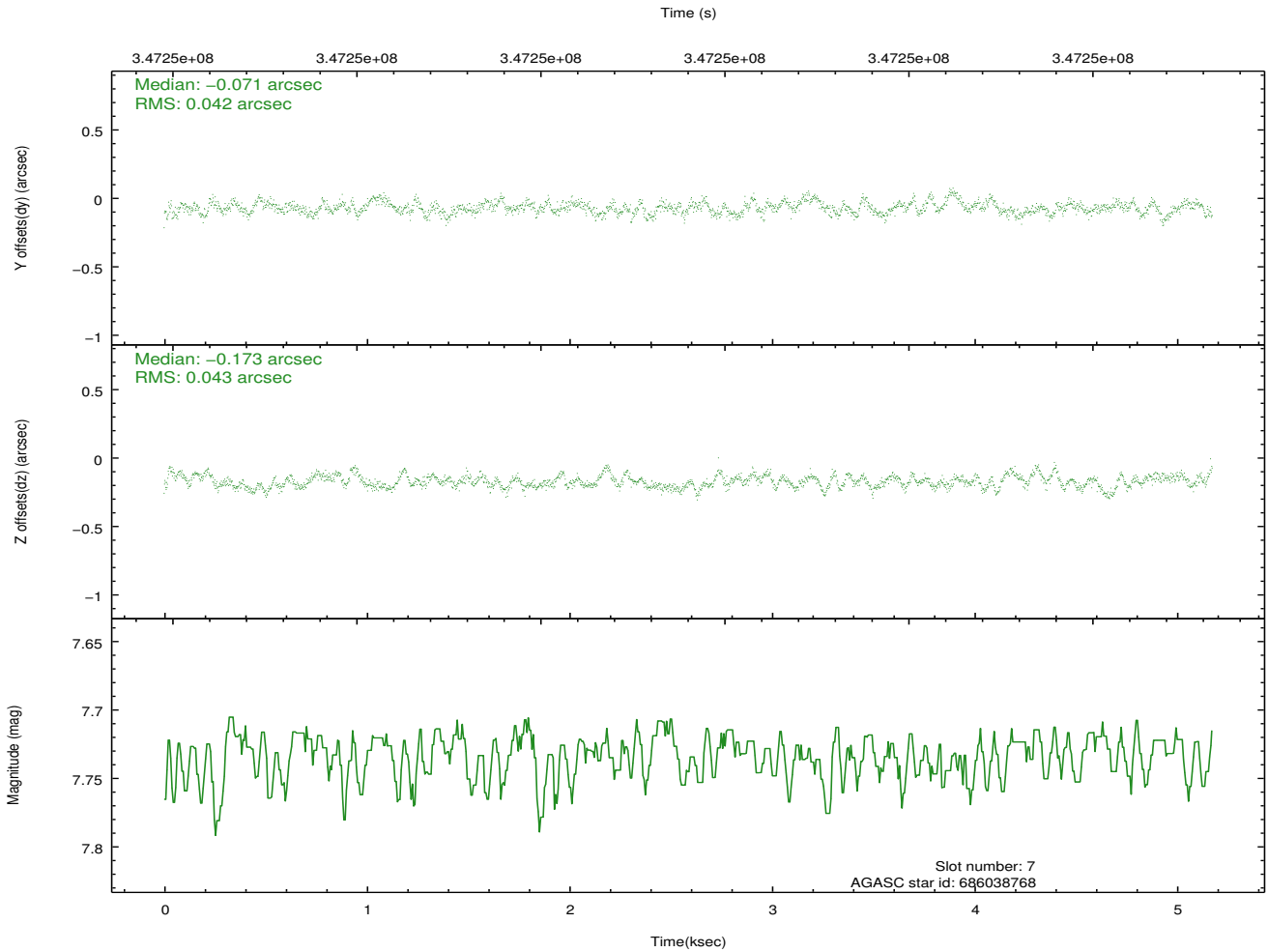
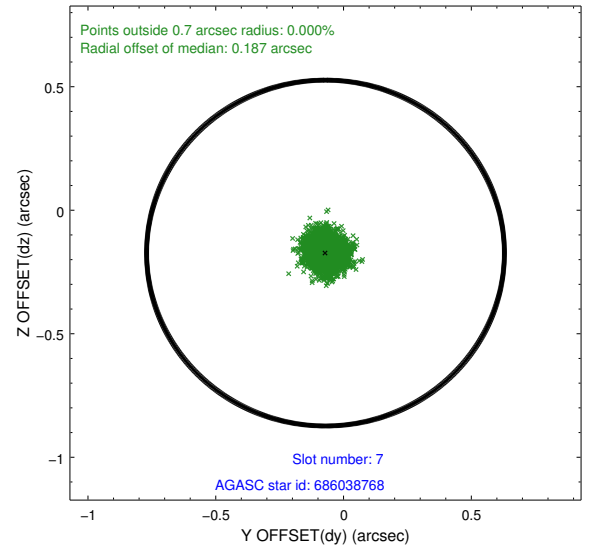
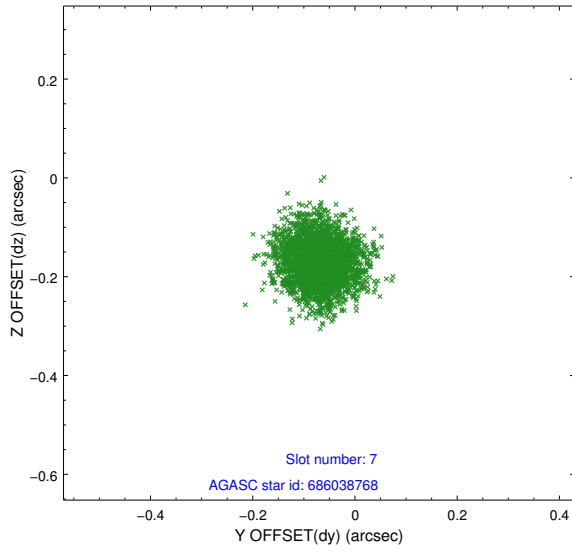


## 2.4.4 Slot 6



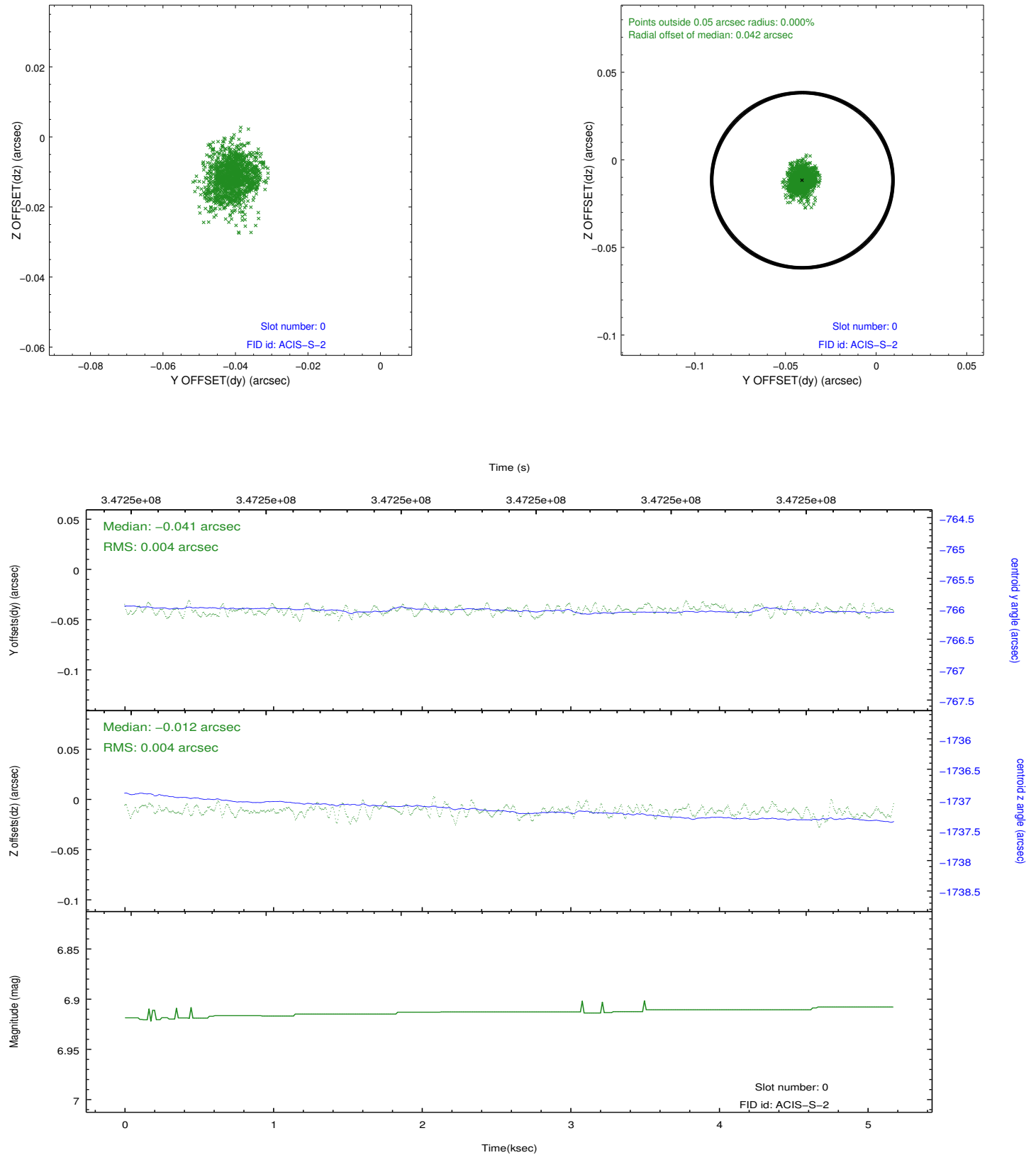


## 2.4.5 Slot 7

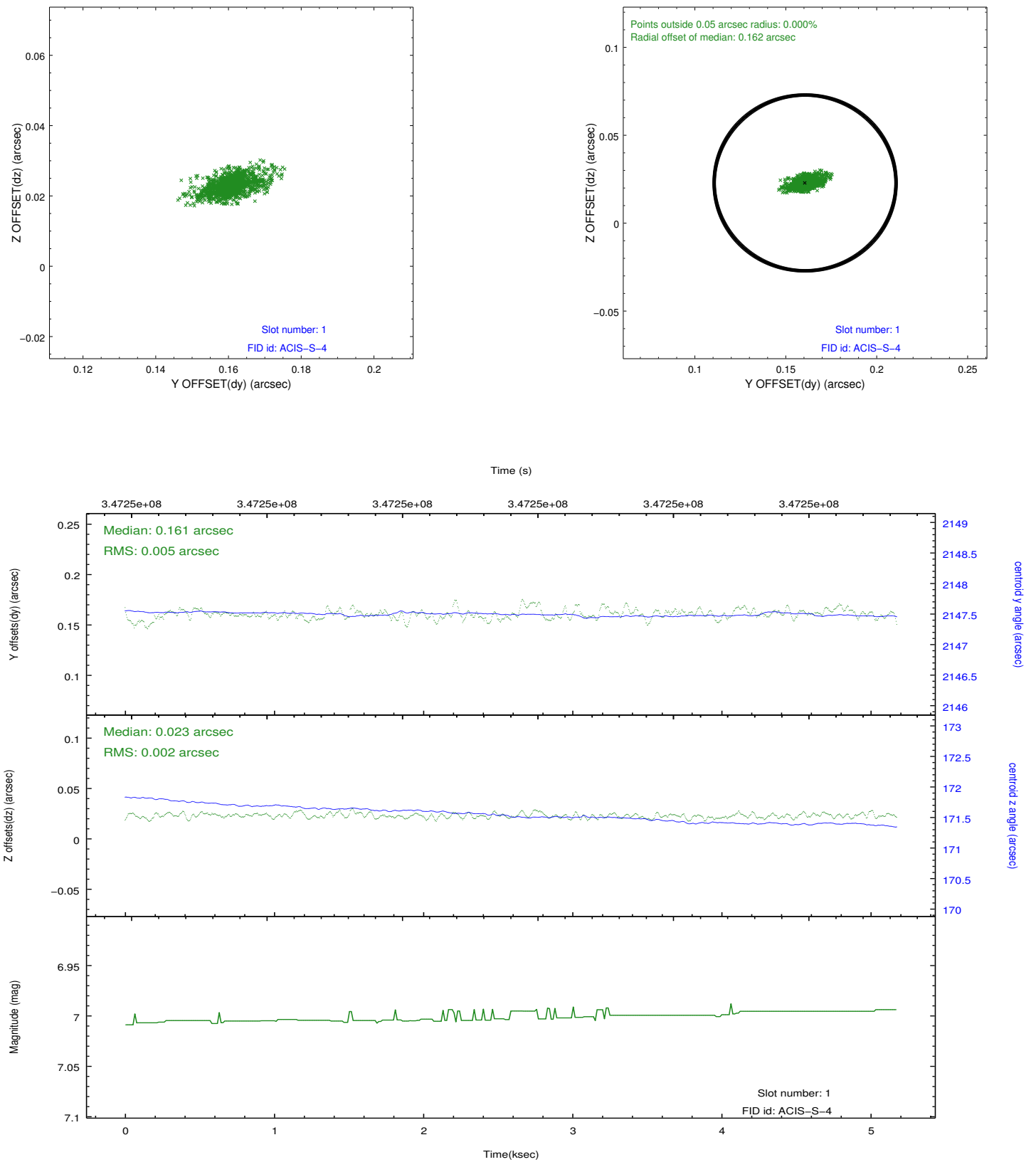


## 2.5 FID Slots

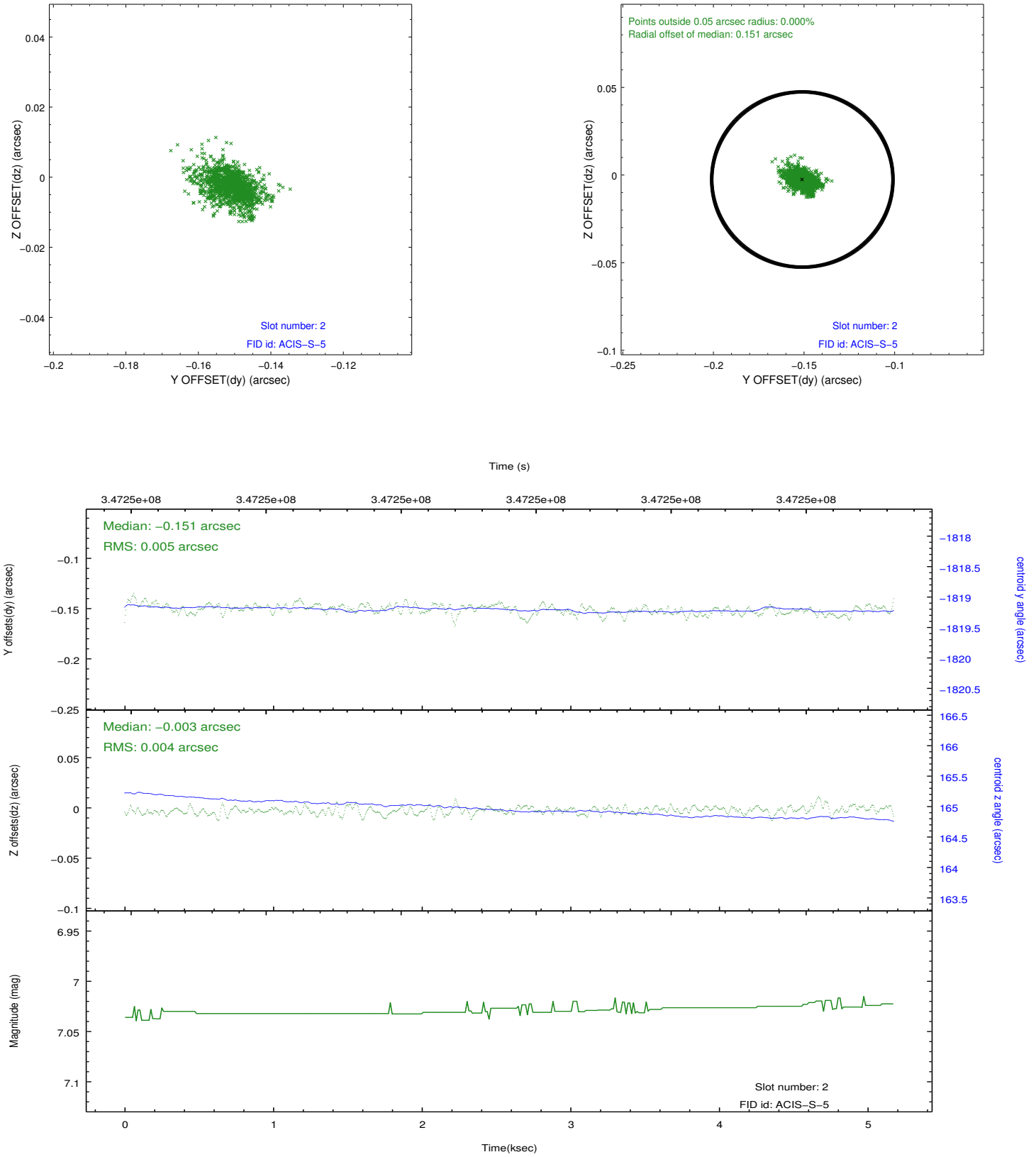
### 2.5.1 Slot 0



## 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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17080003

### A.2 Comments