

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9162 - L2 Version 2  
Chandra X-Ray Center

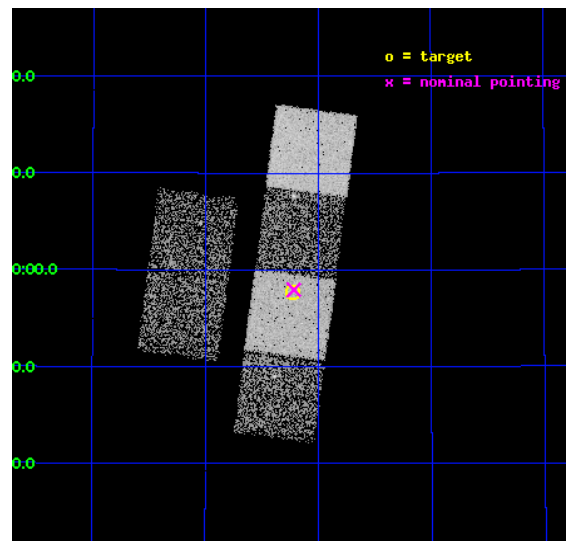
L2 Processing Date : May 6 2012

## 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

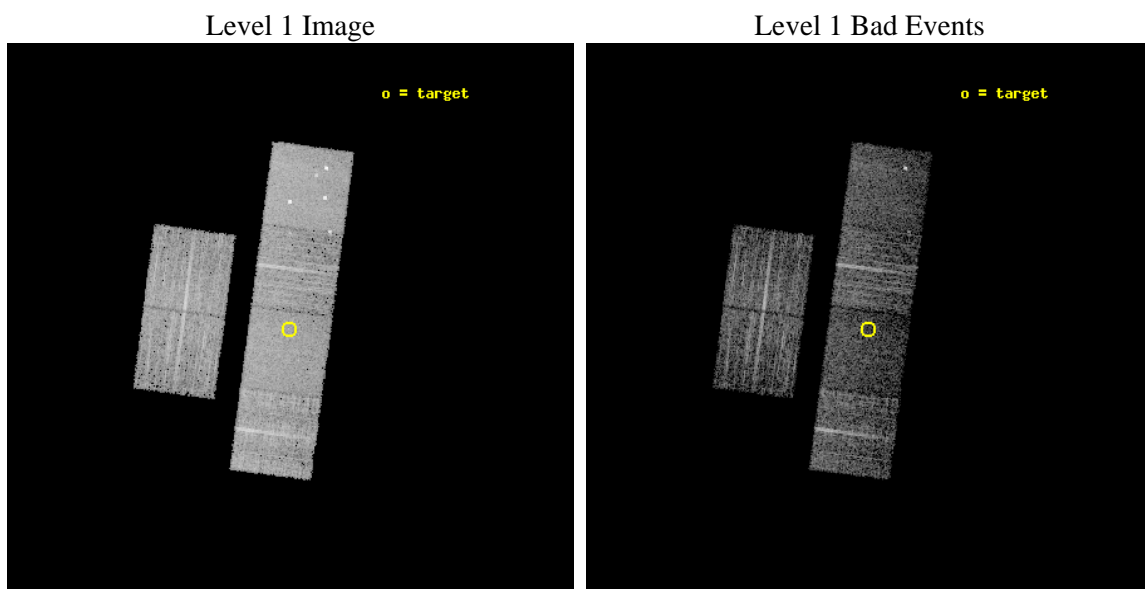
seq_num	701604	Sequence number
obs_id	9162	Observation id
title	Chandra ACIS Snapshots of the Brightest Radio-Loud Broad Absorption Line Quasars in the SDSS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J092913.96+375742.9	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	142.308333	Observer's specified target RA [deg]
dec_targ	37.961889	Observer's specified target Dec [deg]
ra_nom	142.30433533642	Nominal RA [deg]
dec_nom	37.965776637316	Nominal Dec [deg]
roll_nom	97.580507811089	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4038.3999850154	Sum of GTIs [s]
livetime	3987.2633327726	Livetime [s]
ontime2	4038.3999850154	Sum of GTIs [s]
ontime3	4038.3999850154	Sum of GTIs [s]
ontime5	4038.3999850154	Sum of GTIs [s]
ontime6	4038.3999850154	Sum of GTIs [s]
ontime7	4038.3999850154	Sum of GTIs [s]
ontime8	4038.3999850154	Sum of GTIs [s]
l2events	48786	Number of level 2 events



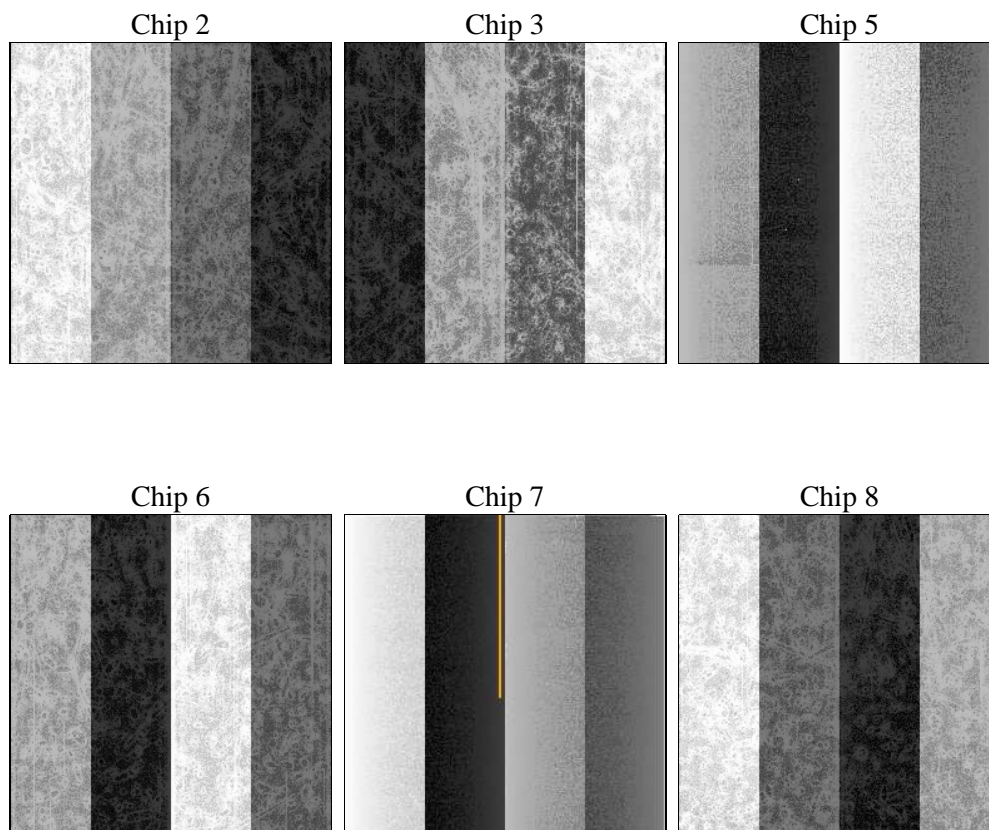
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	4038.3999850154	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4038.3999850154	Sum of GTIs [s]
date	2012-05-06T15:44:40	Date and time of file creation	ontime3	4038.3999850154	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4038.3999850154	Sum of GTIs [s]
			ontime6	4038.3999850154	Sum of GTIs [s]
			ontime7	4038.3999850154	Sum of GTIs [s]
			ontime8	4038.3999850154	Sum of GTIs [s]
			l1events	229979	Number of level 1 events

### 2.1.4 Events

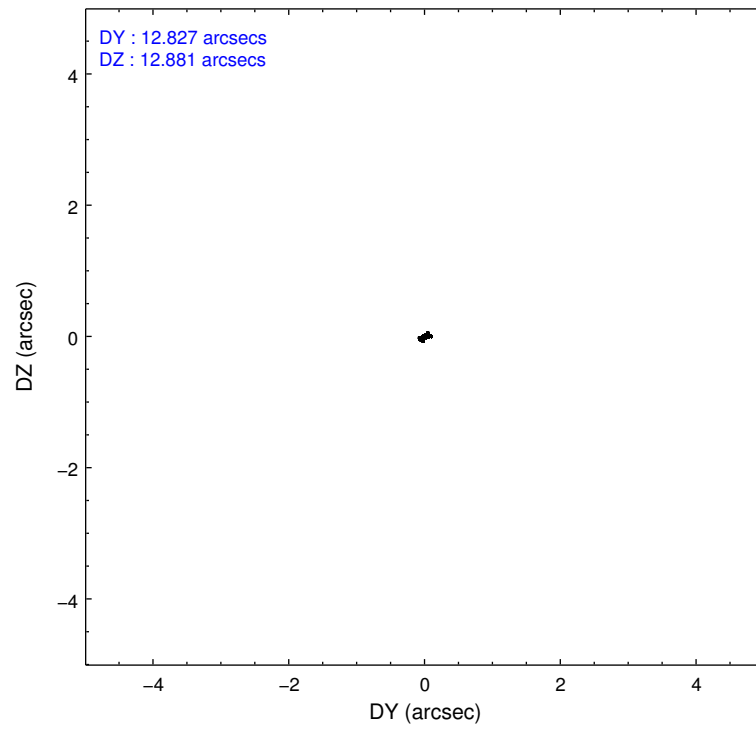
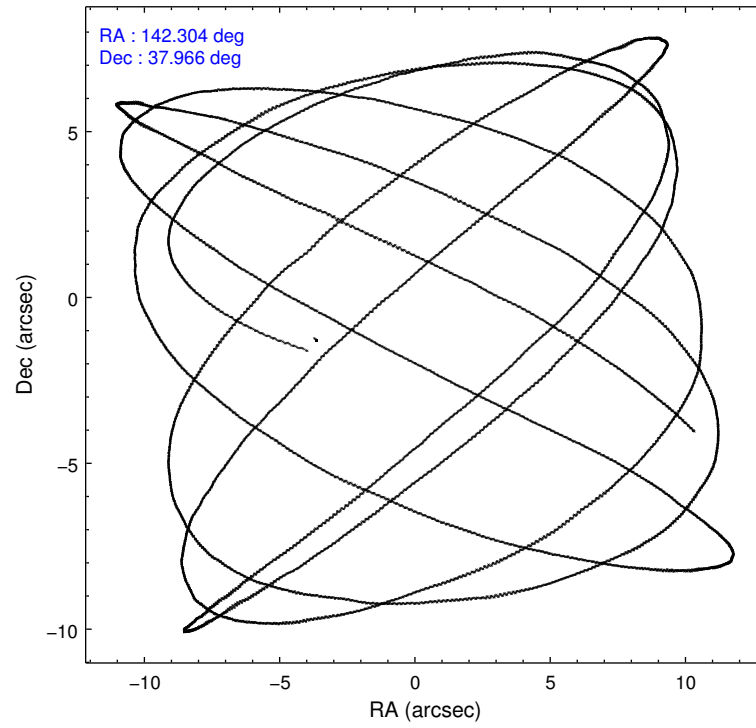
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36495	32574	48413	34629	36796	41072	grade 0 events	1087	1117	3997	1248	1553	3133
rejected events	33363	29558	23798	31095	20019	31143		2%	3%	8%	3%	4%	7%
rejected %	91%	90%	49%	89%	54%	75%	grade 1 events	22	22	162	18	54	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	736	612	6980	781	3383	2212
								2%	1%	14%	2%	9%	5%
							grade 3 events	335	346	834	412	1475	1104
								0%	1%	1%	1%	4%	2%
							grade 4 events	357	366	777	354	1426	1011
								0%	1%	1%	1%	3%	2%
							grade 5 events	1074	1273	3429	1278	3836	1863
								2%	3%	7%	3%	10%	4%
							grade 6 events	623	576	12061	746	8967	2475
								1%	1%	24%	2%	24%	6%
							grade 7 events	32261	28262	20173	29792	16102	29234
								88%	86%	41%	86%	43%	71%

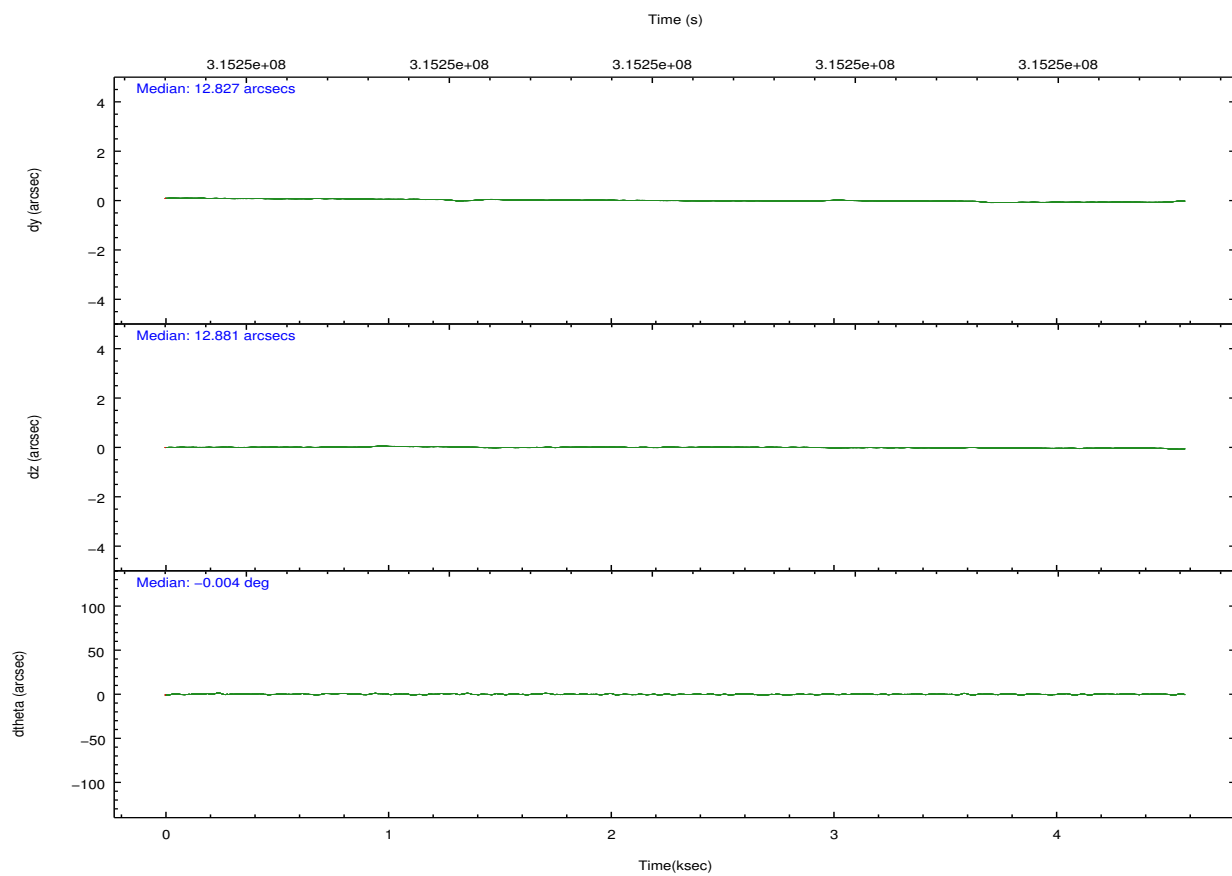
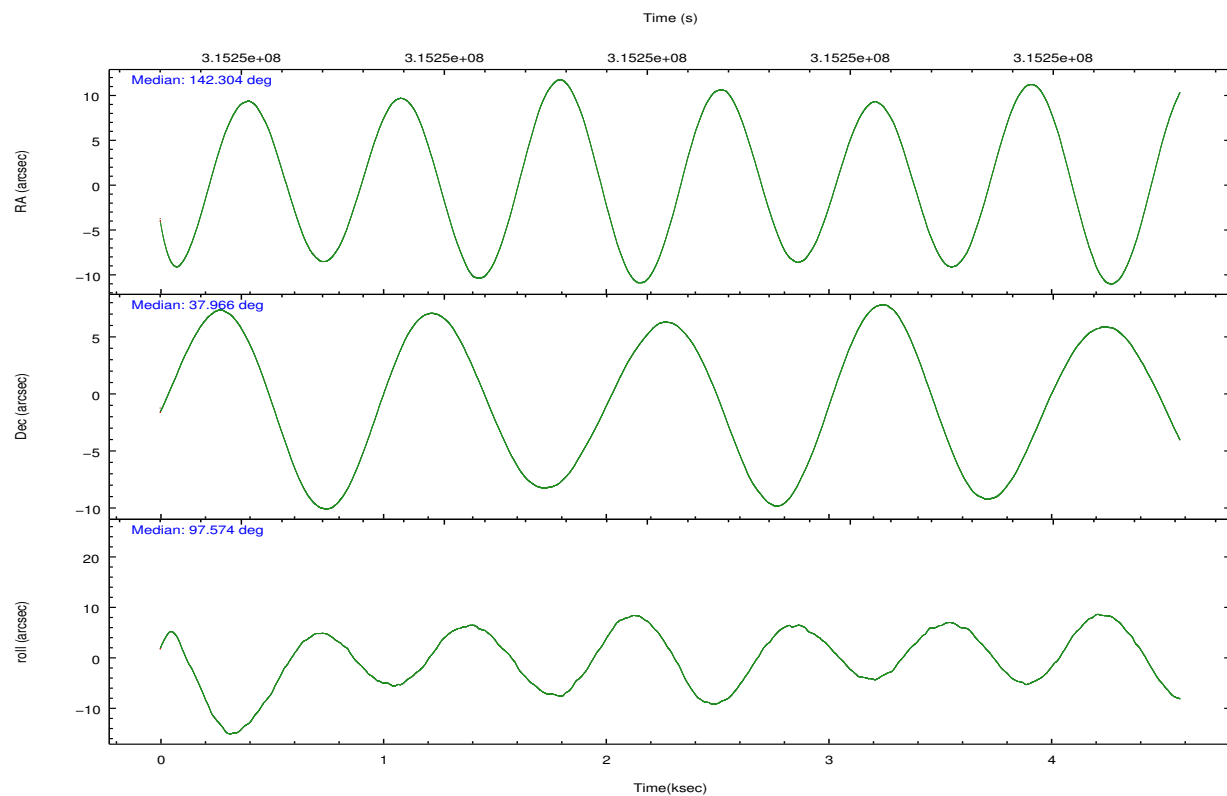


## 2.2 Compared Parameters

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	142.325959	142.3043353364166	CCD I2 on	O1	Y
[deg] Pointing Dec	37.944196	37.96577663731618	CCD I3 on	O2	Y
[deg] Pointing Roll	97.410571	97.58050781108938	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[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)	315246401.184000	315245198.42646	CCD S5 on	N	N
Observation start date	2007-12-28T16:25:36	2007-12-28T16:06:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	315250401.184000	315251098.83925	On-chip summing requested	N	N
Observation end date	2007-12-28T17:32:16	2007-12-28T17:44:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



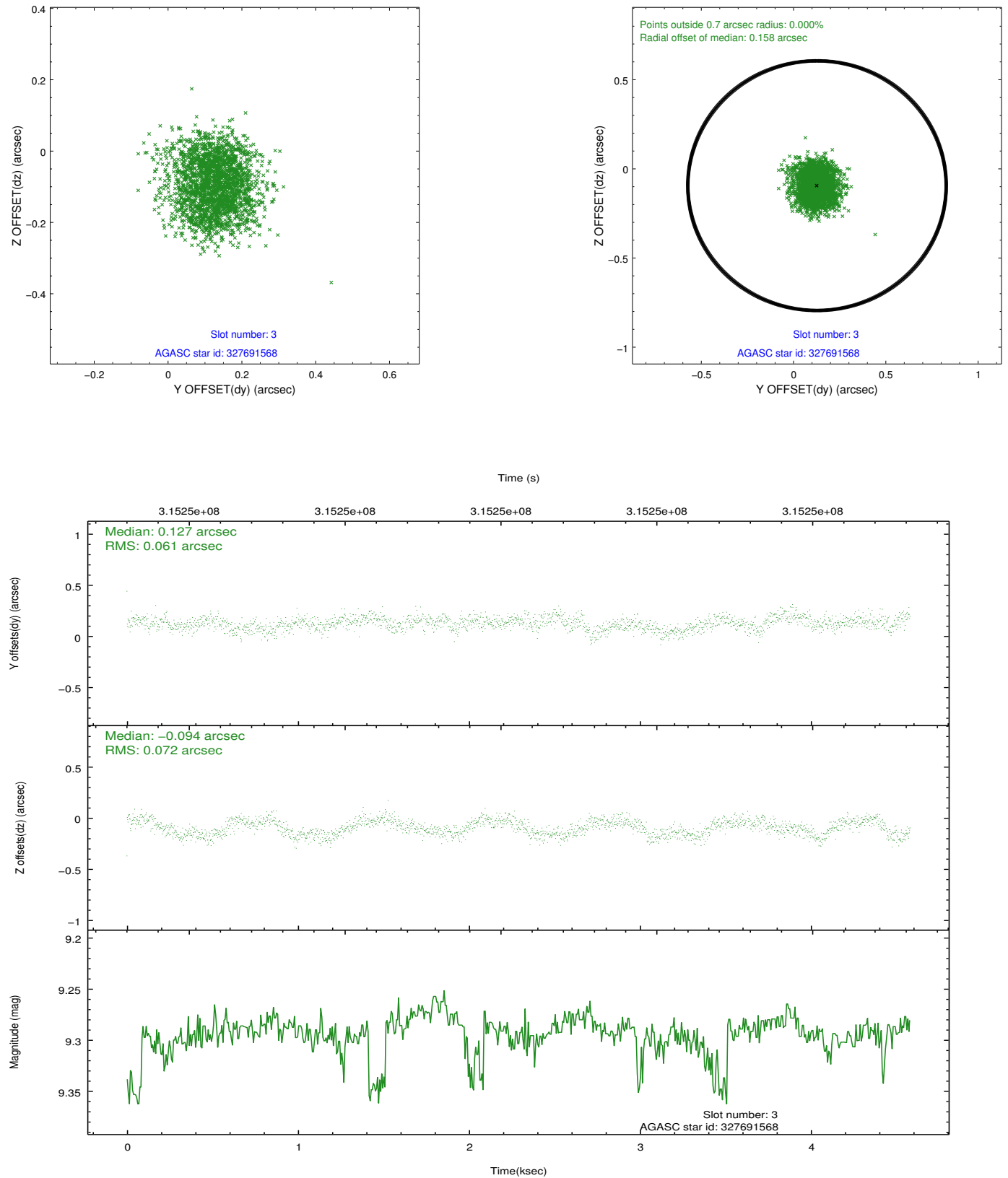


### Slot Statistics

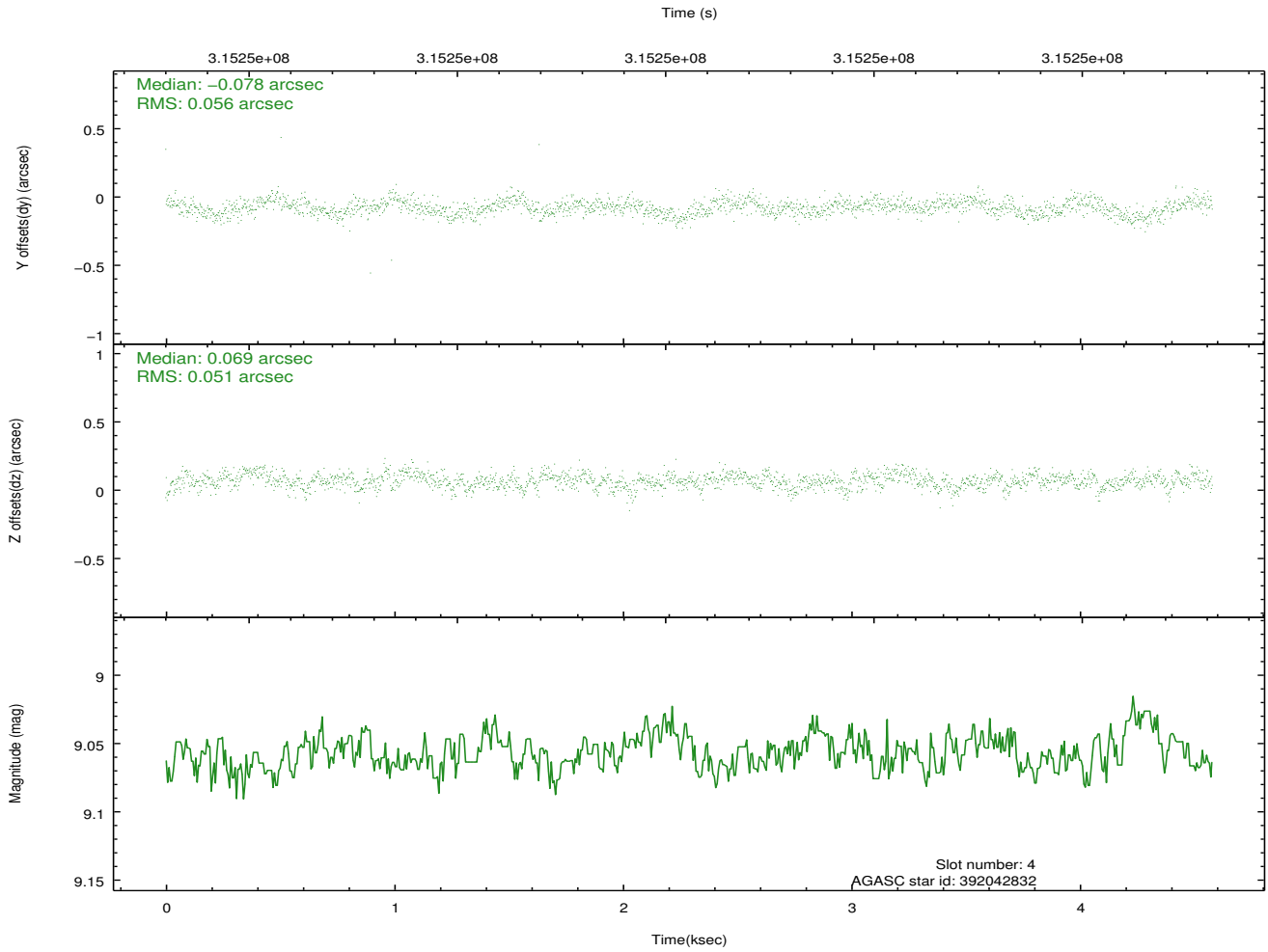
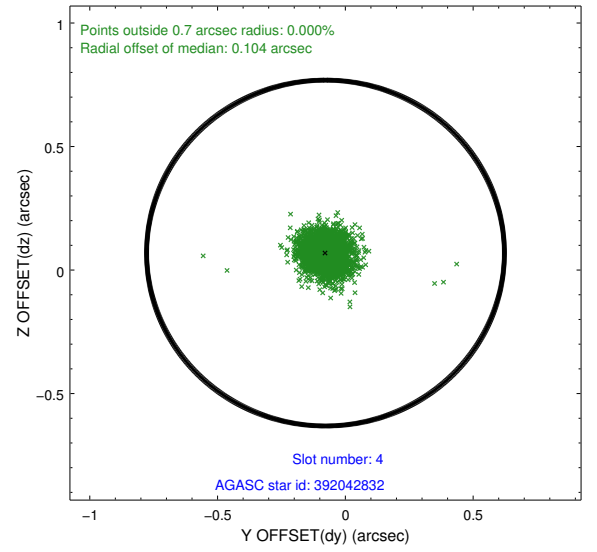
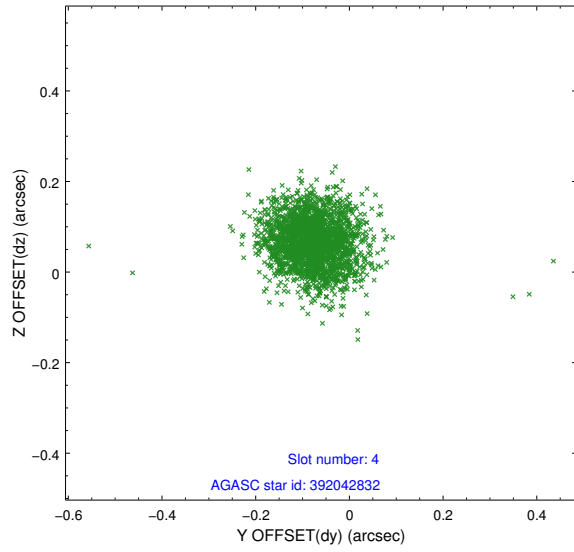
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1118	-0.020	-0.054	0.006	0.010	0.000000	0.000000	-765.77	-1734.20
1	FID	ACIS-S-4	7.19	1118	0.141	0.024	0.005	0.010	0.000000	0.000000	2147.06	172.96
2	FID	ACIS-S-5	7.23	1118	-0.152	0.039	0.006	0.011	0.000000	0.000000	-1817.01	168.19
3	GUIDE	327691568	9.29	2225	0.127	-0.094	0.102	0.158	142.168978	37.397810	-1892.53	698.58
4	GUIDE	392042832	9.06	2234	-0.078	0.069	0.078	0.126	142.740653	38.244395	922.03	-1301.94
5	GUIDE	392043088	9.89	2231	0.138	0.057	0.134	0.216	142.008655	37.507787	-1439.69	1100.57
6	GUIDE	392044000	9.79	2231	-0.146	-0.079	0.120	0.194	141.800210	38.207399	1134.41	1352.62
7	GUIDE	392047072	8.44	2234	-0.027	0.051	0.080	0.130	142.893294	38.588848	2100.60	-1881.86

## 2.4 Star Slots

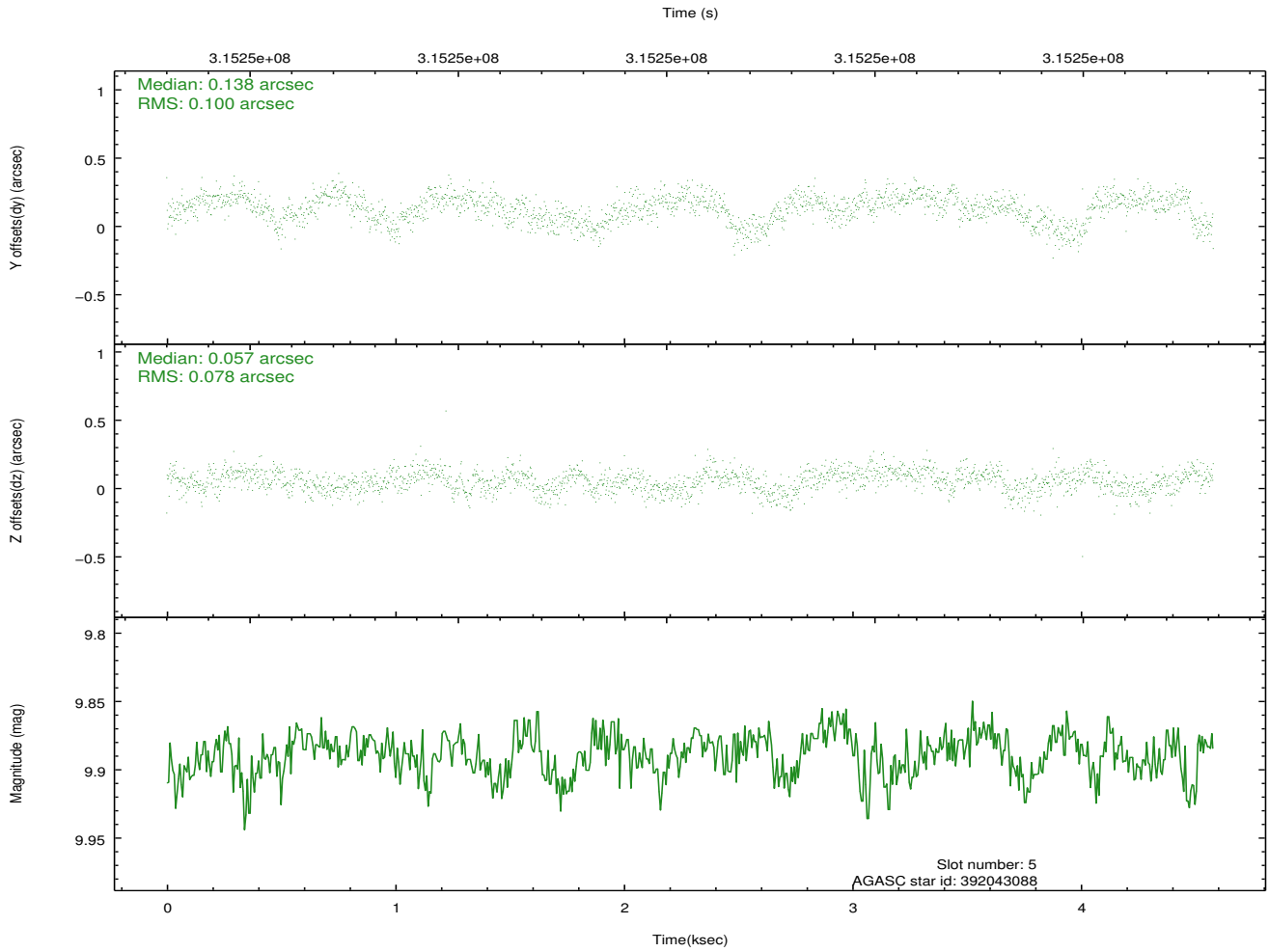
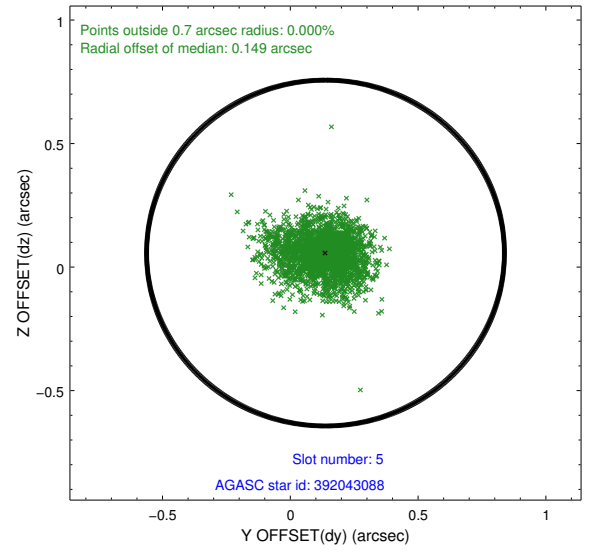
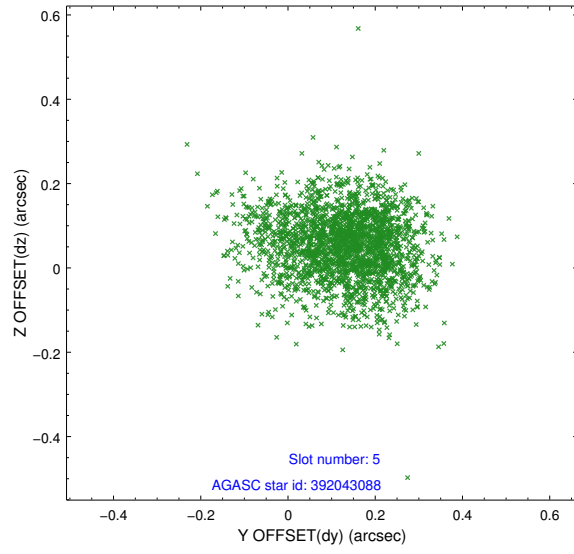
### 2.4.1 Slot 3



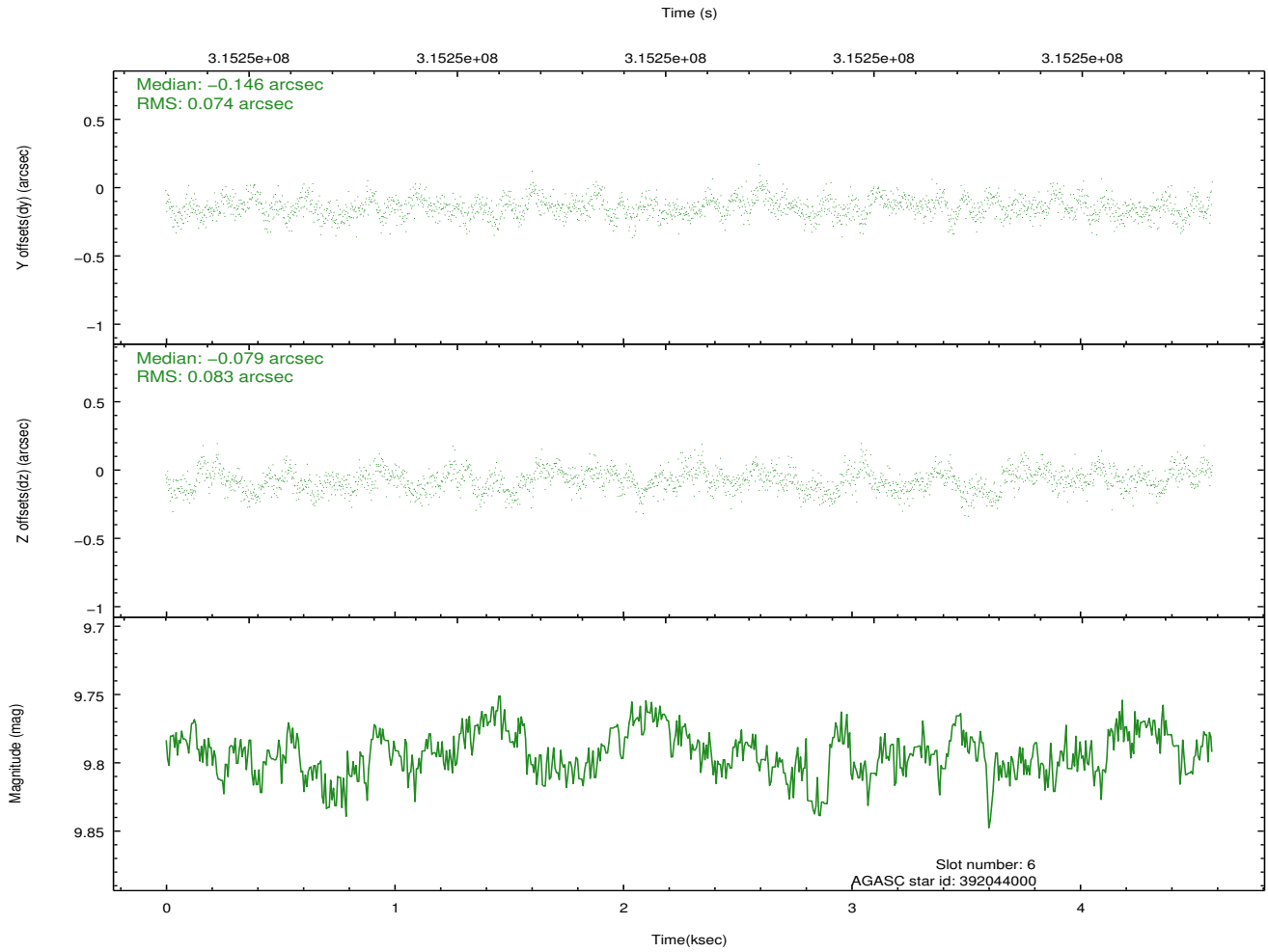
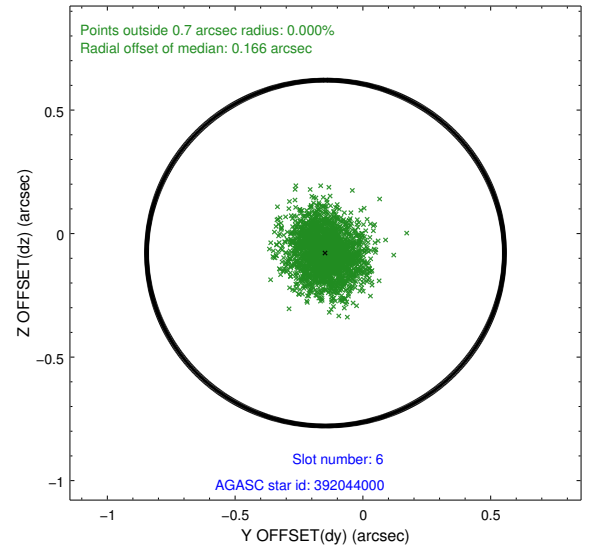
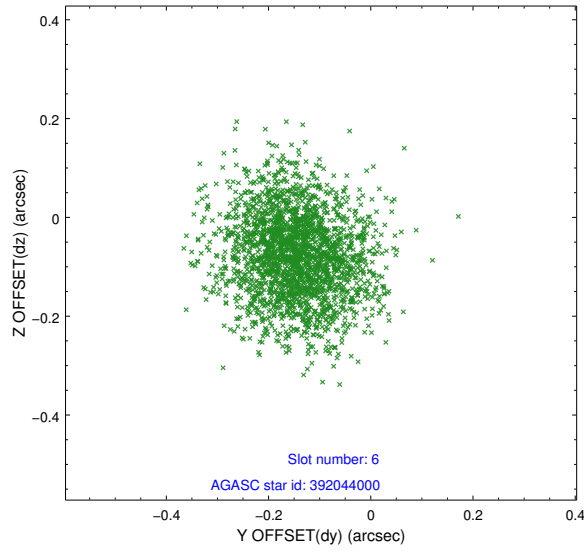
## 2.4.2 Slot 4



### 2.4.3 Slot 5

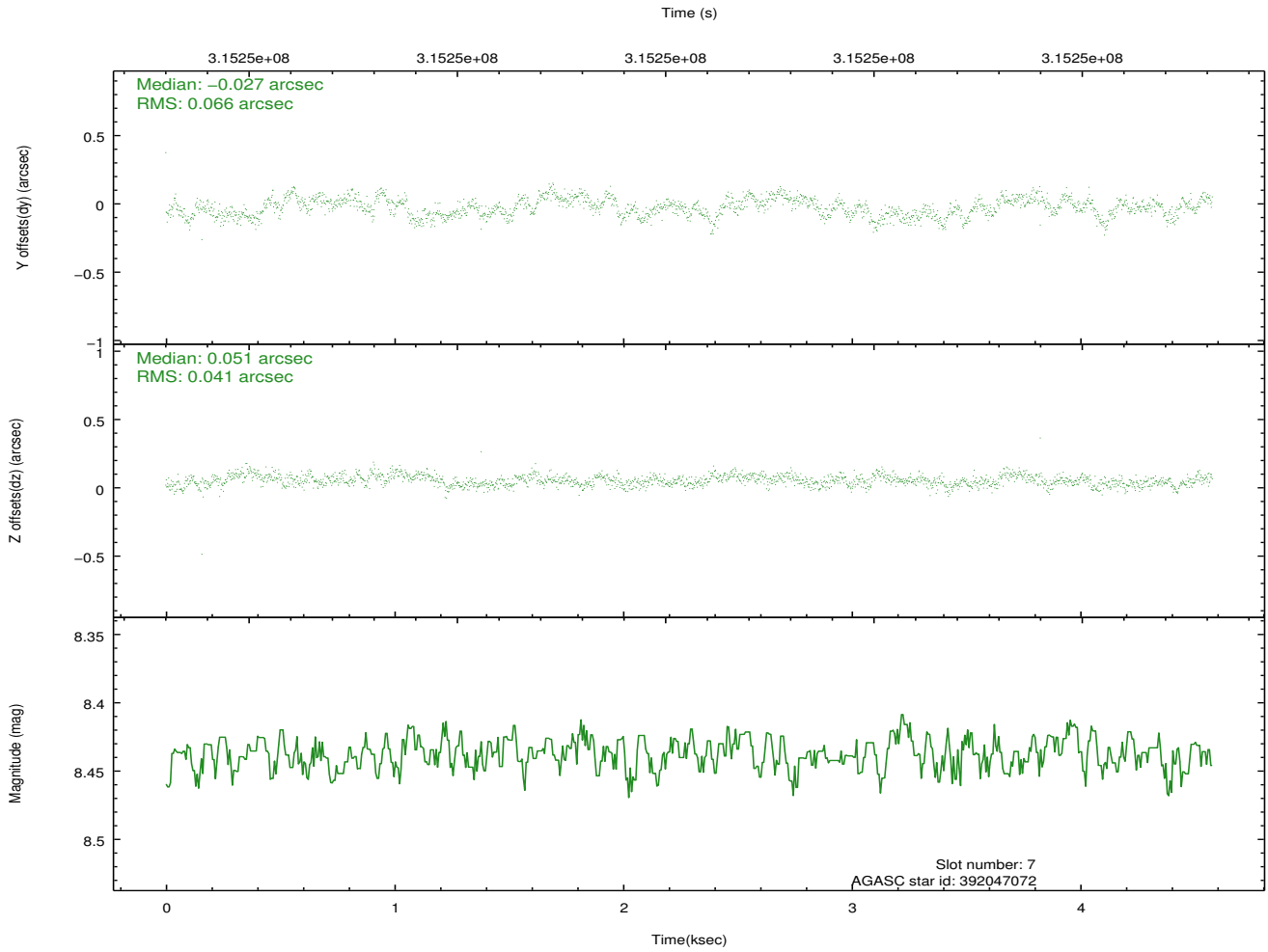
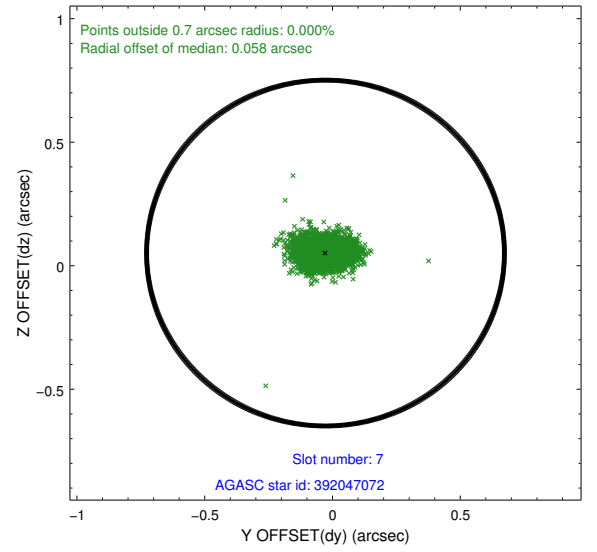
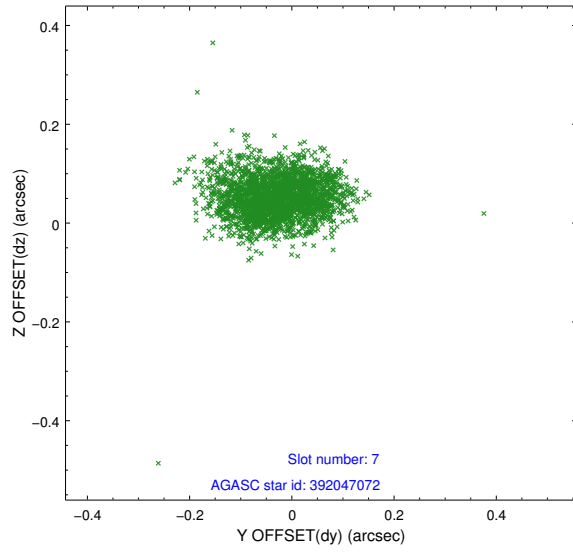


## 2.4.4 Slot 6



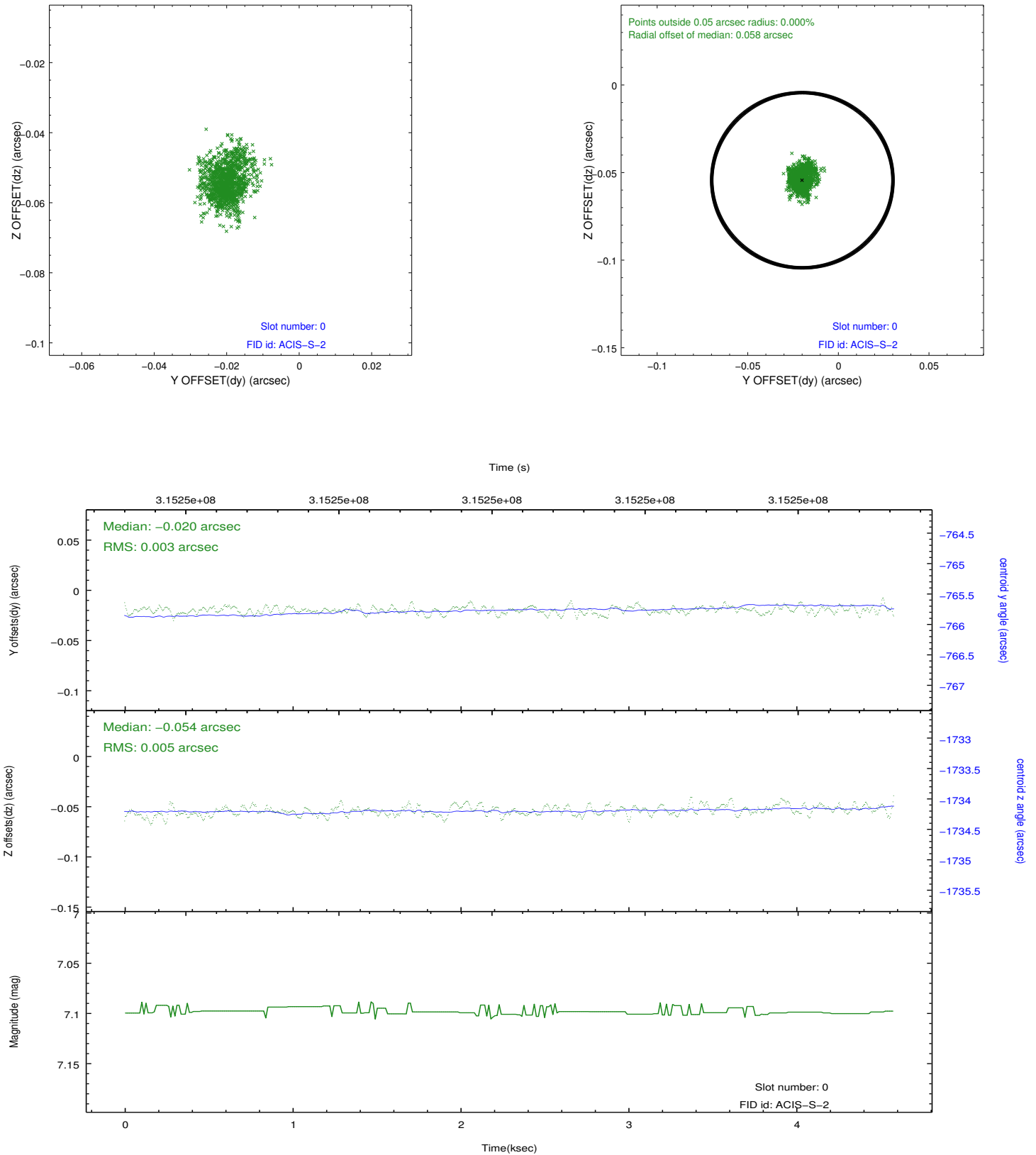


## 2.4.5 Slot 7

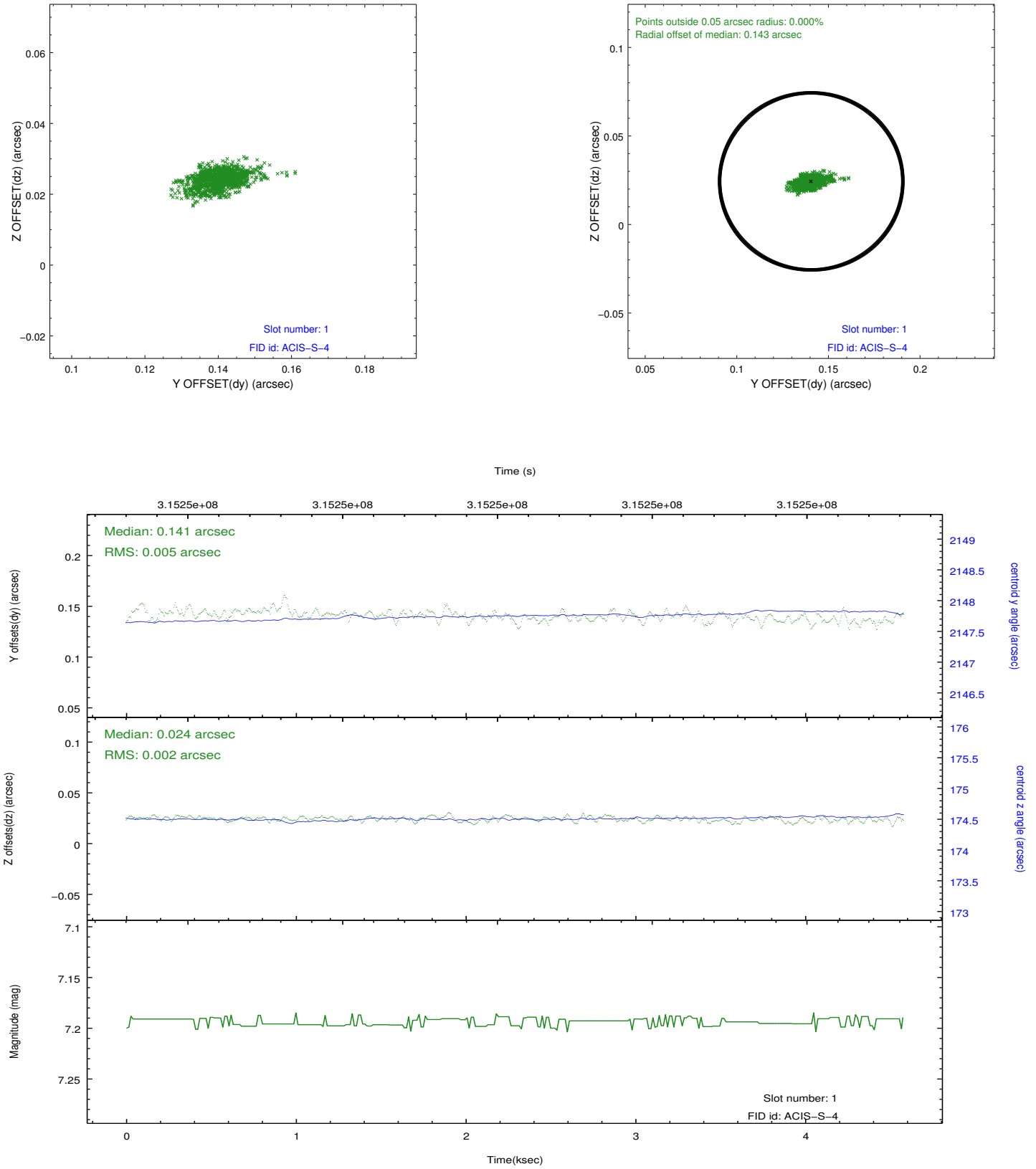


## 2.5 FID Slots

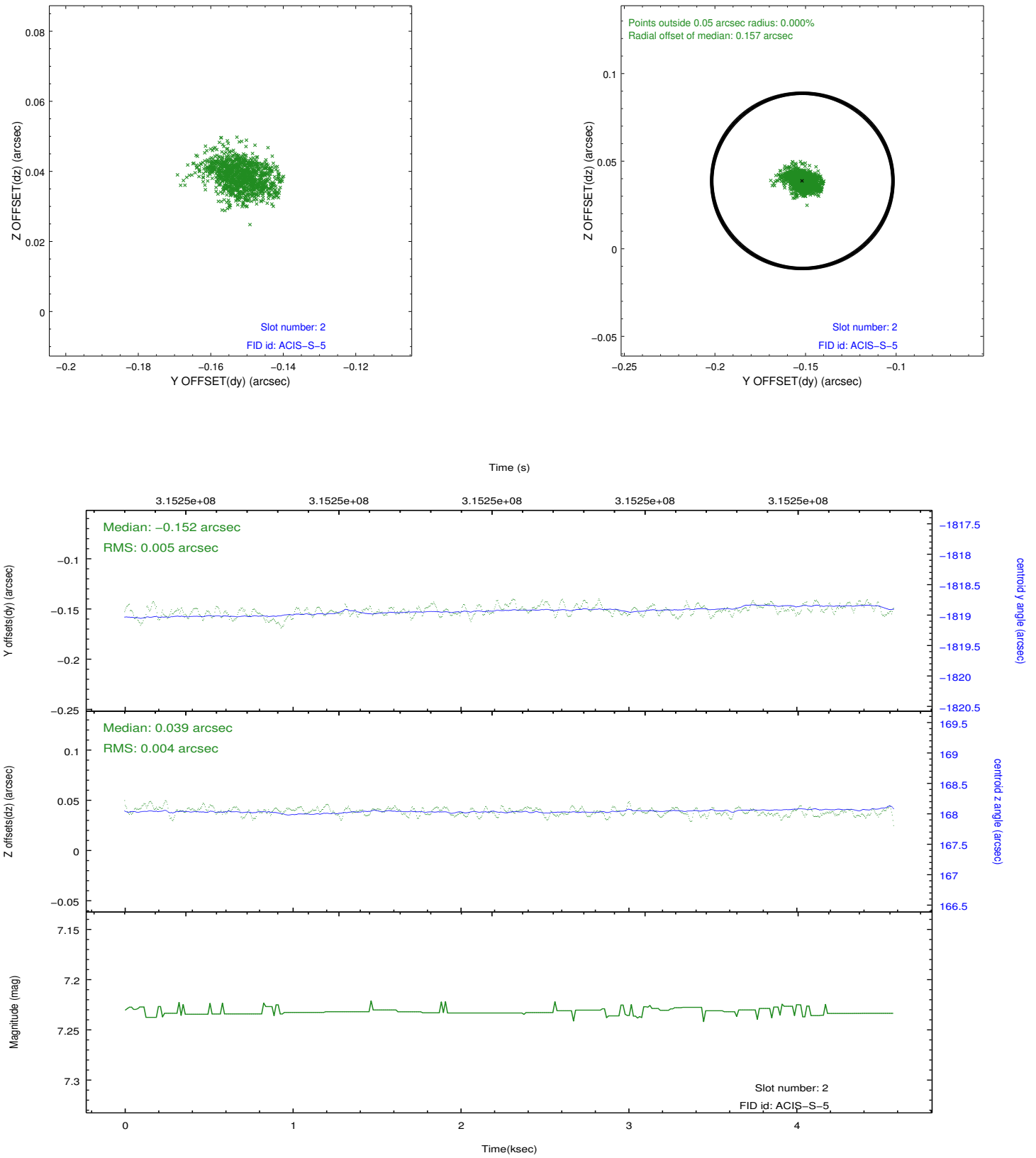
### 2.5.1 Slot 0



## 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)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.03839998

### A.2 Comments