

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8747 - L2 Version 2  
Chandra X-Ray Center

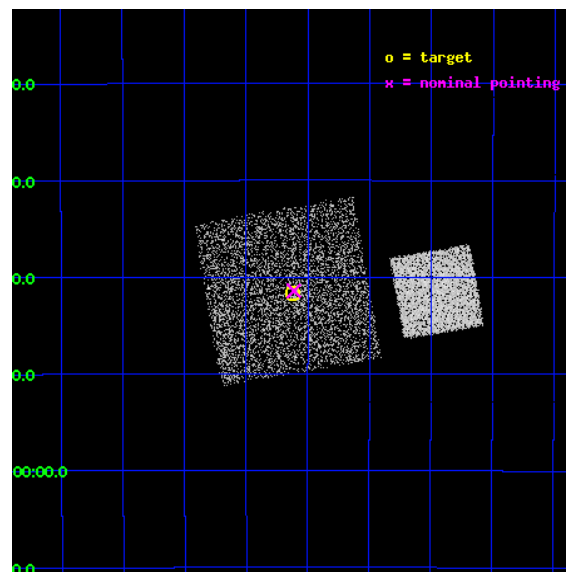
L2 Processing Date : May 14 2012

## 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

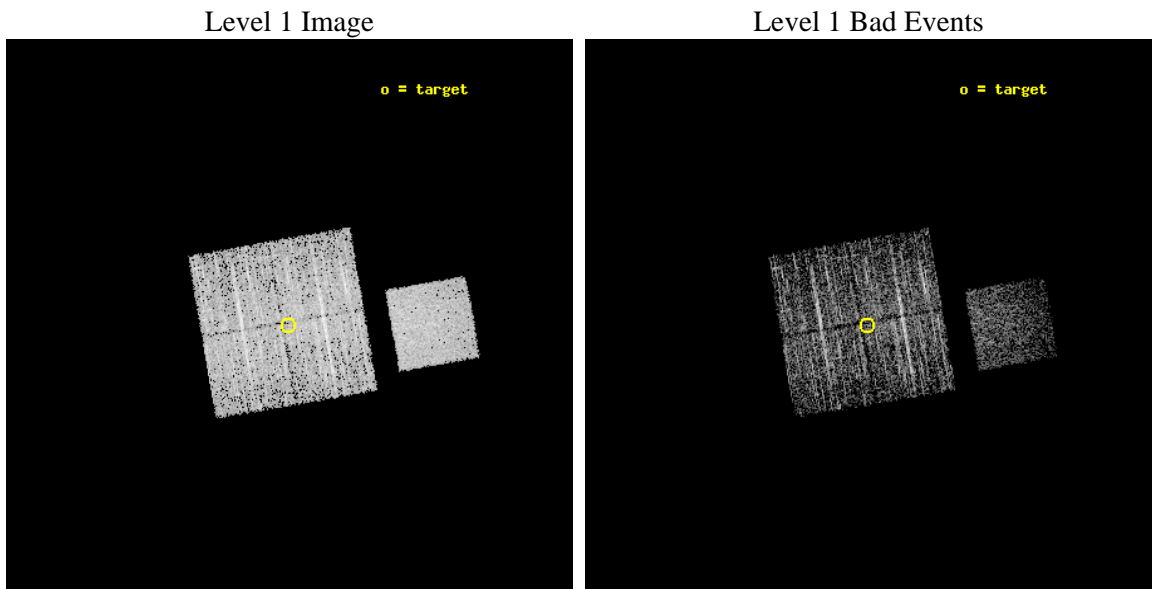
seq_num	400798	Sequence number
obs_id	8747	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.655006	Observer's specified target RA [deg]
dec_targ	-30.695118	Observer's specified target Dec [deg]
ra_nom	266.65307051805	Nominal RA [deg]
dec_nom	-30.690353835997	Nominal Dec [deg]
roll_nom	80.207710984674	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
ontime7	2188.6000168324	Sum of GTIs [s]
l2events	15484	Number of level 2 events



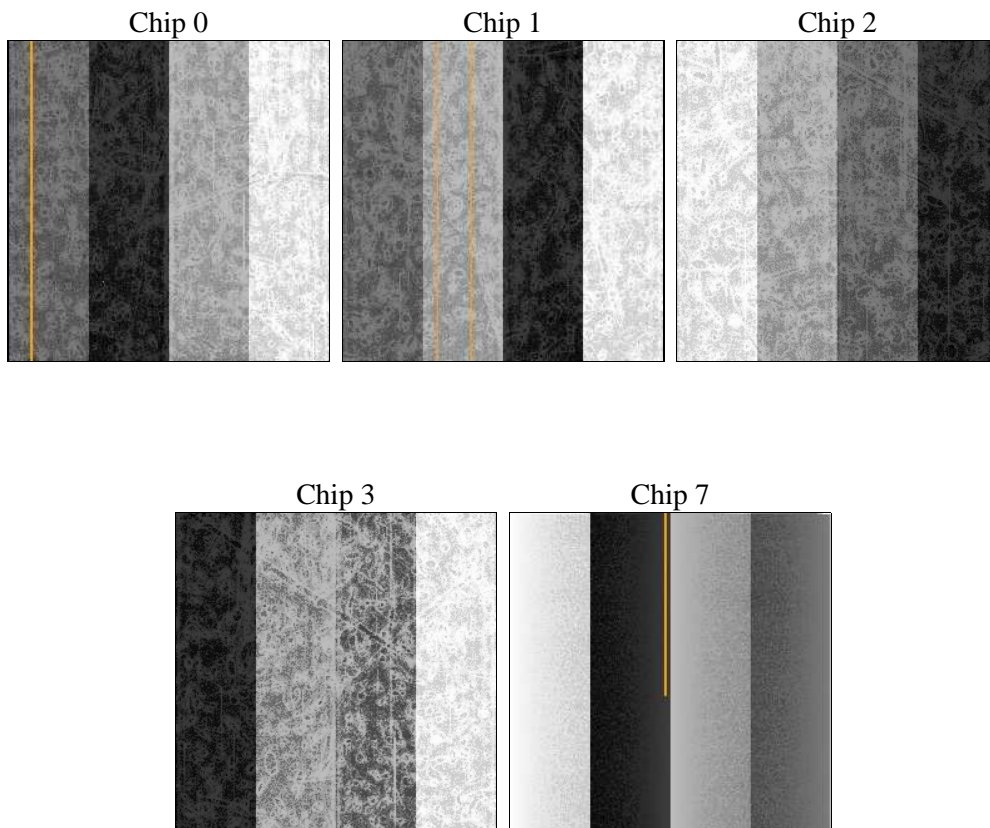
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-05-14T23:37:57	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			ontime7	2188.6000168324	Sum of GTIs [s]
			l1events	104165	Number of level 1 events

### 2.1.4 Events

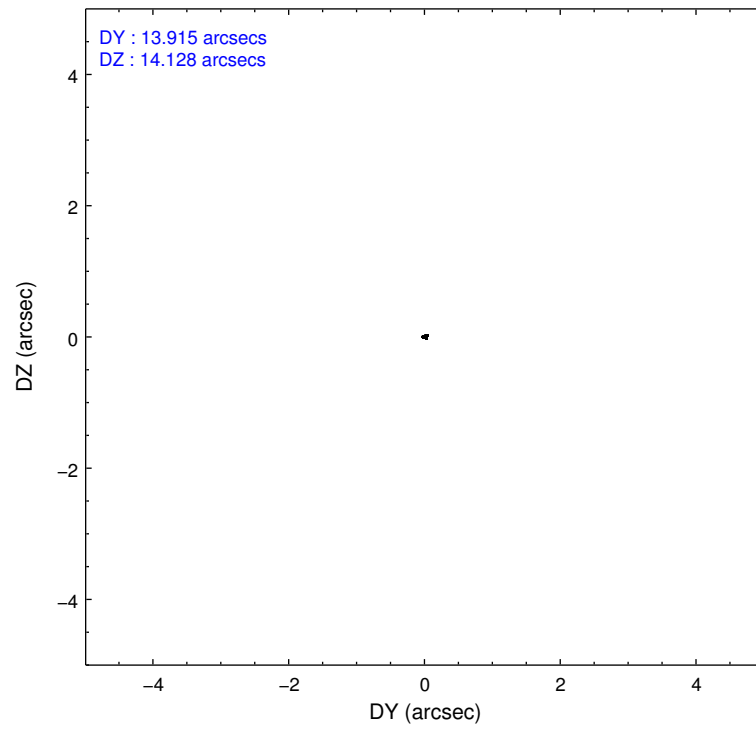
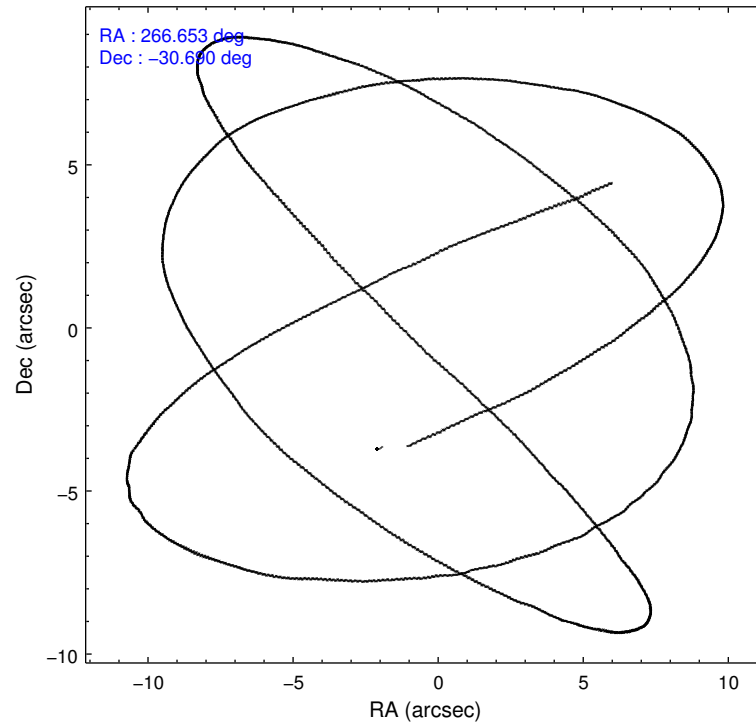
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19342	19871	20844	21646	22462
rejected events	17326	17624	18905	19803	13477
rejected %	89%	88%	90%	91%	59%

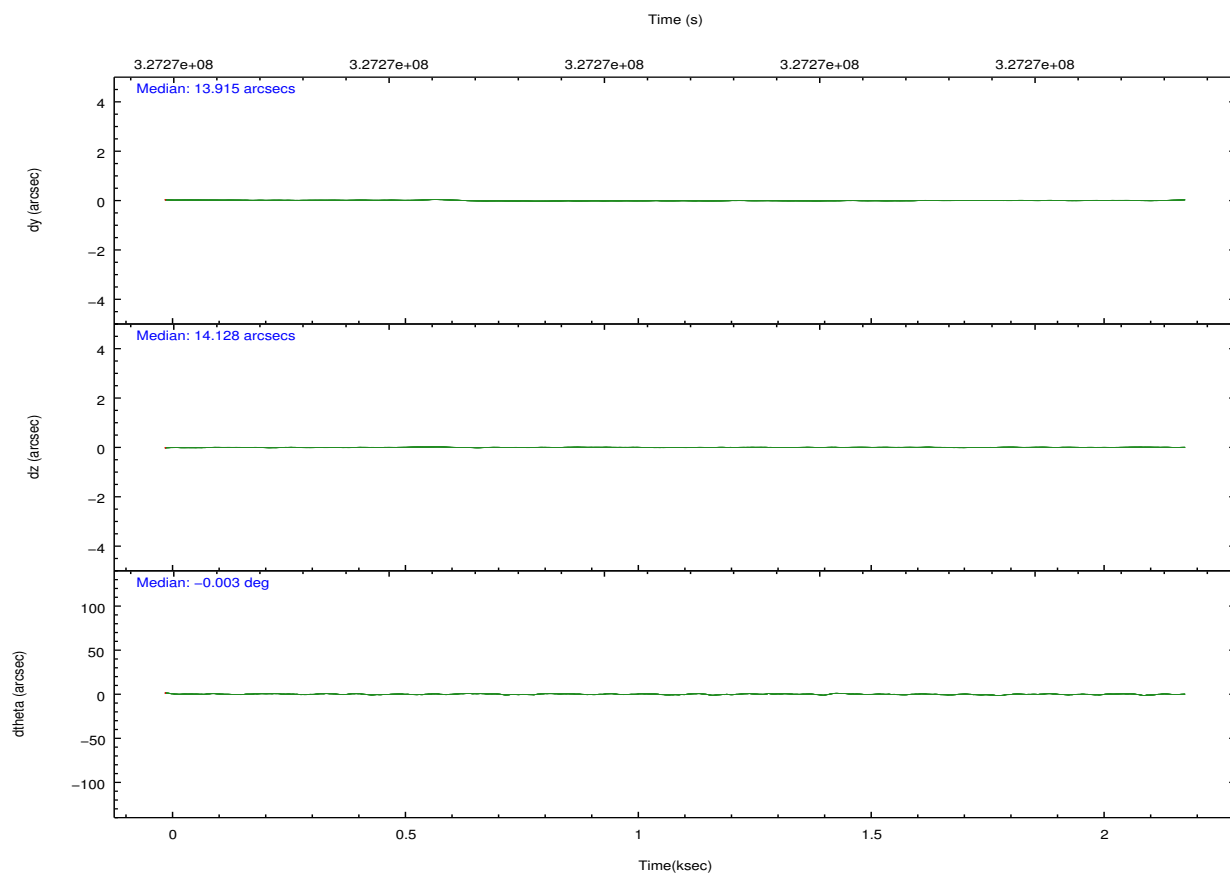
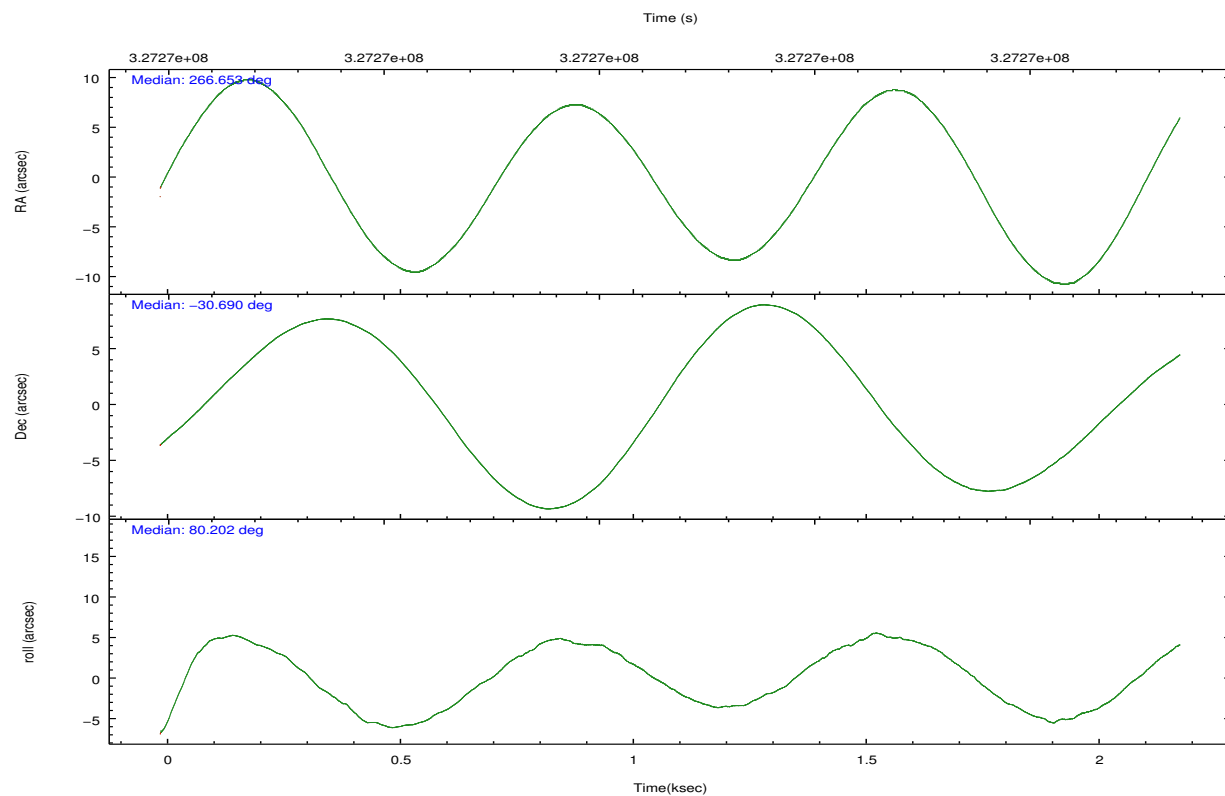
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	953	1037	898	816	1028
	4%	5%	4%	3%	4%
grade 1 events	9	8	19	9	27
	0%	0%	0%	0%	0%
grade 2 events	514	587	491	427	2119
	2%	2%	2%	1%	9%
grade 3 events	223	257	207	222	935
	1%	1%	0%	1%	4%
grade 4 events	204	237	229	240	932
	1%	1%	1%	1%	4%
grade 5 events	746	747	689	817	2336
	3%	3%	3%	3%	10%
grade 6 events	404	438	380	408	5278
	2%	2%	1%	1%	23%
grade 7 events	16289	16560	17931	18707	9807
	84%	83%	86%	86%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	266.664281	266.6530705180476	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.716151	-30.69035383599685	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004744	80.20771098467415	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327272749.184000	327272373.22341	CCD S5 on	N	N
Observation start date	2008-05-15T21:04:44	2008-05-15T20:59:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327274749.184000	327274883.44853	On-chip summing requested	N	N
Observation end date	2008-05-15T21:38:04	2008-05-15T21:41:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





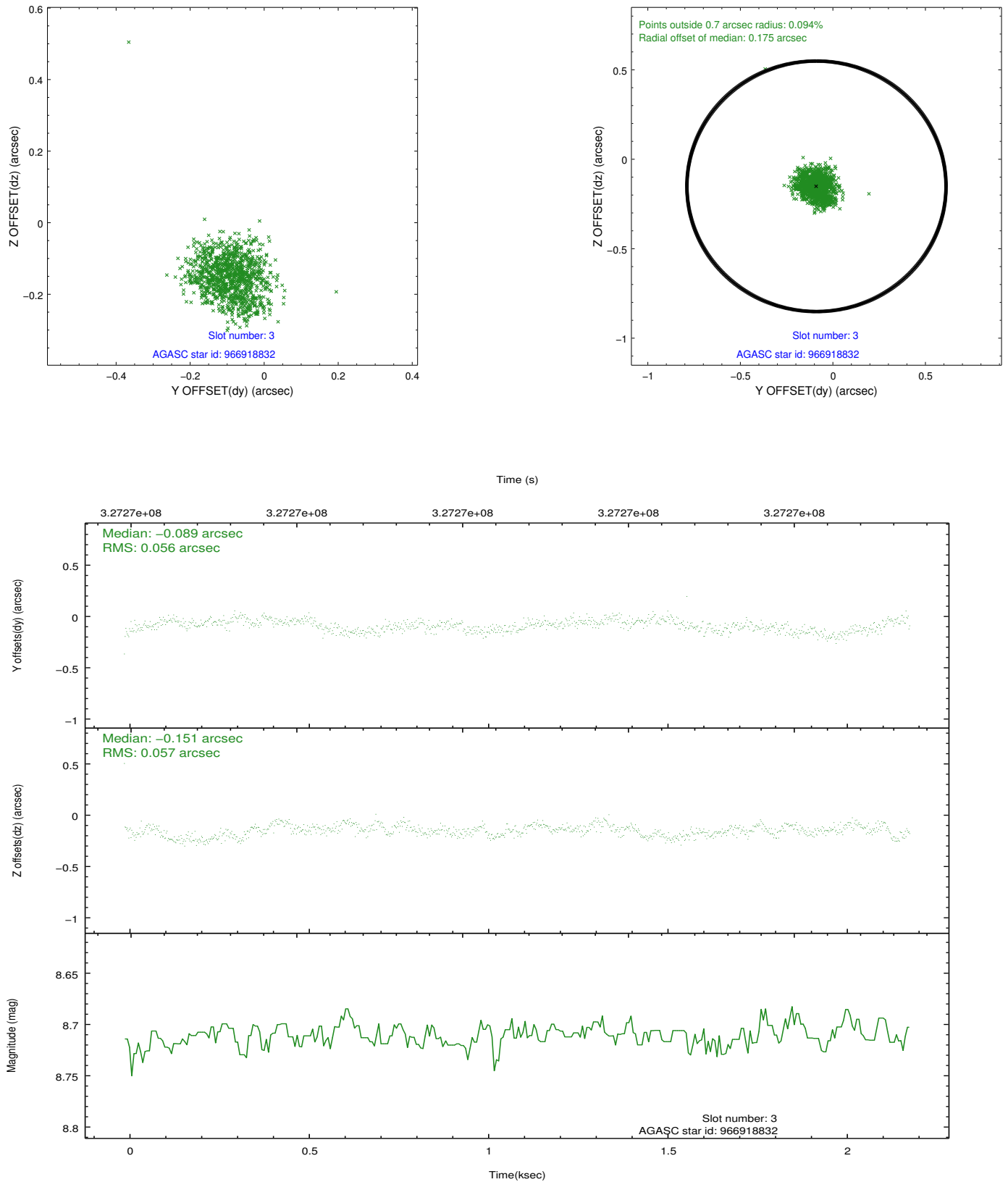
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	535	0.018	0.034	0.006	0.009	0.000000	0.000000	925.60	-837.66
1	FID	ACIS-I-5	7.03	535	-0.204	0.032	0.006	0.010	0.000000	0.000000	-1821.11	1058.30
2	FID	ACIS-I-6	7.04	534	0.095	0.005	0.006	0.010	0.000000	0.000000	387.95	1706.18
3	GUIDE	966918832	8.71	1067	-0.089	-0.151	0.085	0.126	266.278876	-30.183148	1679.34	1514.04
4	GUIDE	966919736	6.90	1069	-0.090	0.187	0.066	0.127	267.322278	-30.597445	770.35	-1933.61
5	GUIDE	966925512	8.30	1069	0.046	-0.113	0.212	0.269	266.373606	-31.056700	-1363.48	667.98
6	GUIDE	966927000	8.15	1069	0.053	0.244	0.097	0.147	267.318997	-31.255021	-1567.59	-2321.24
7	GUIDE	966924912	8.01	1068	0.077	-0.173	0.077	0.114	266.020014	-31.275150	-2333.08	1599.62

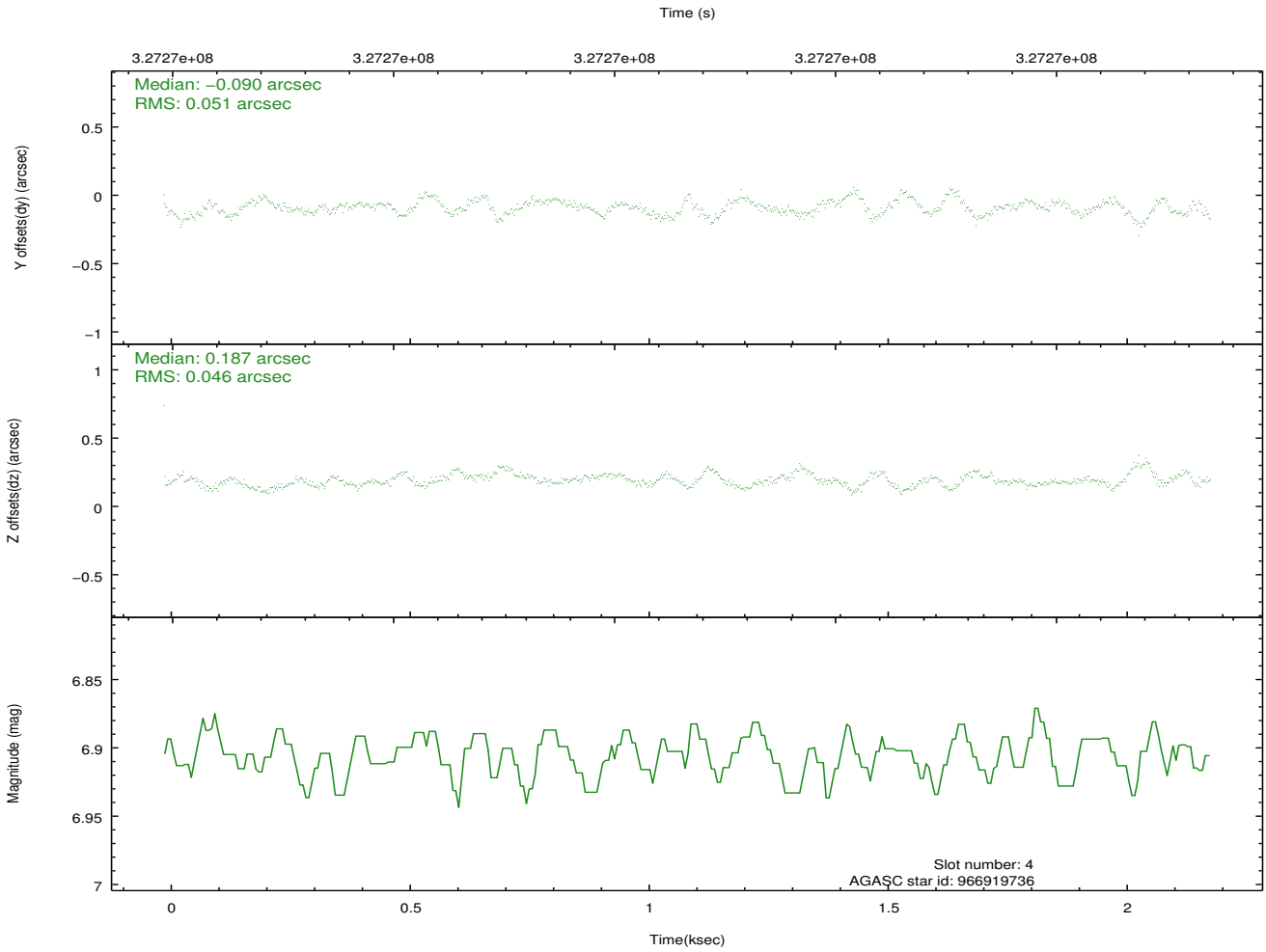
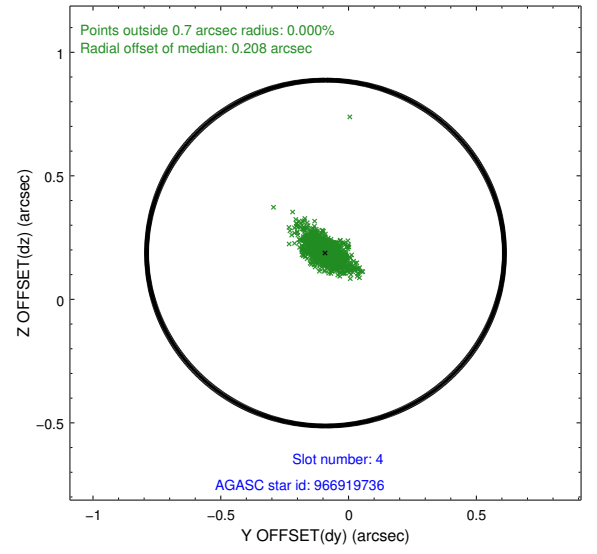
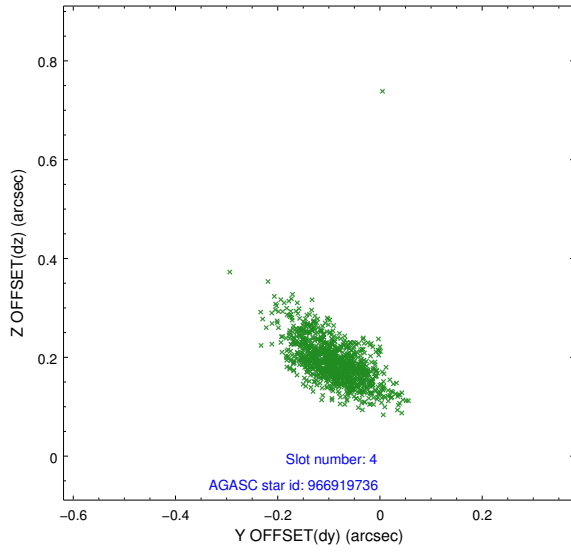


## 2.4 Star Slots

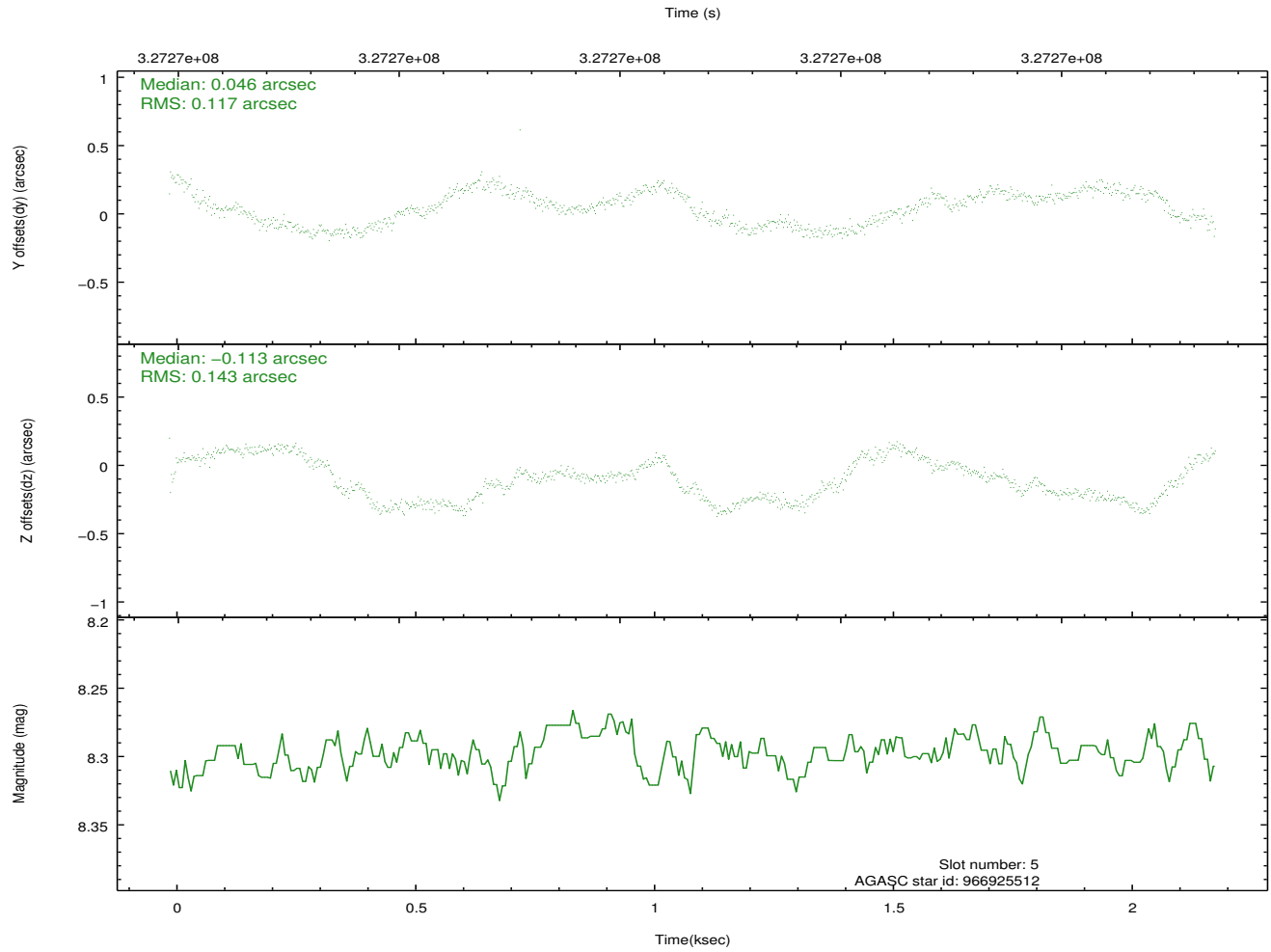
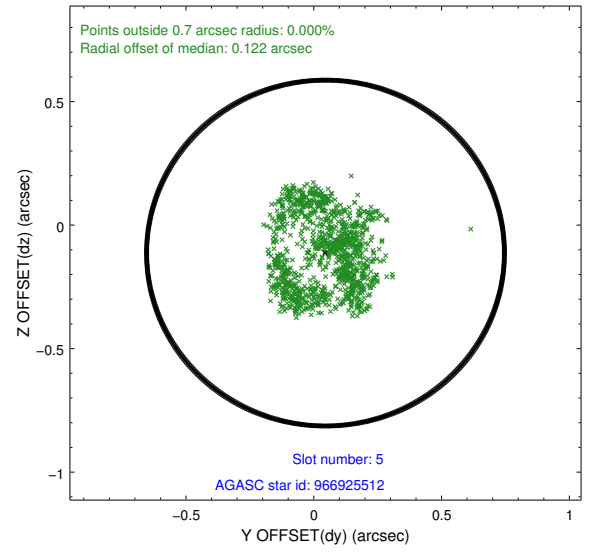
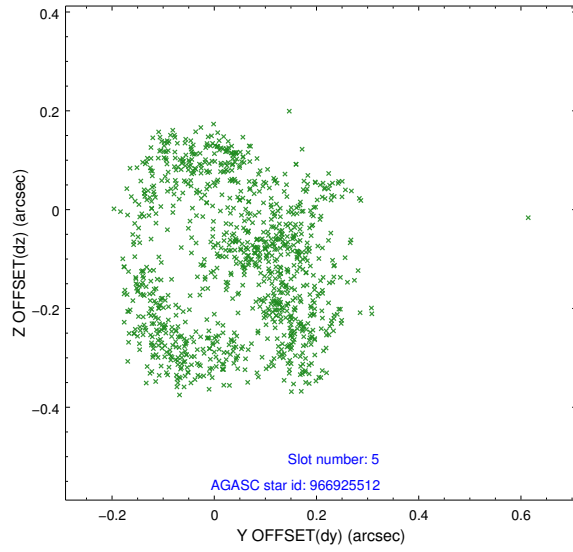
### 2.4.1 Slot 3



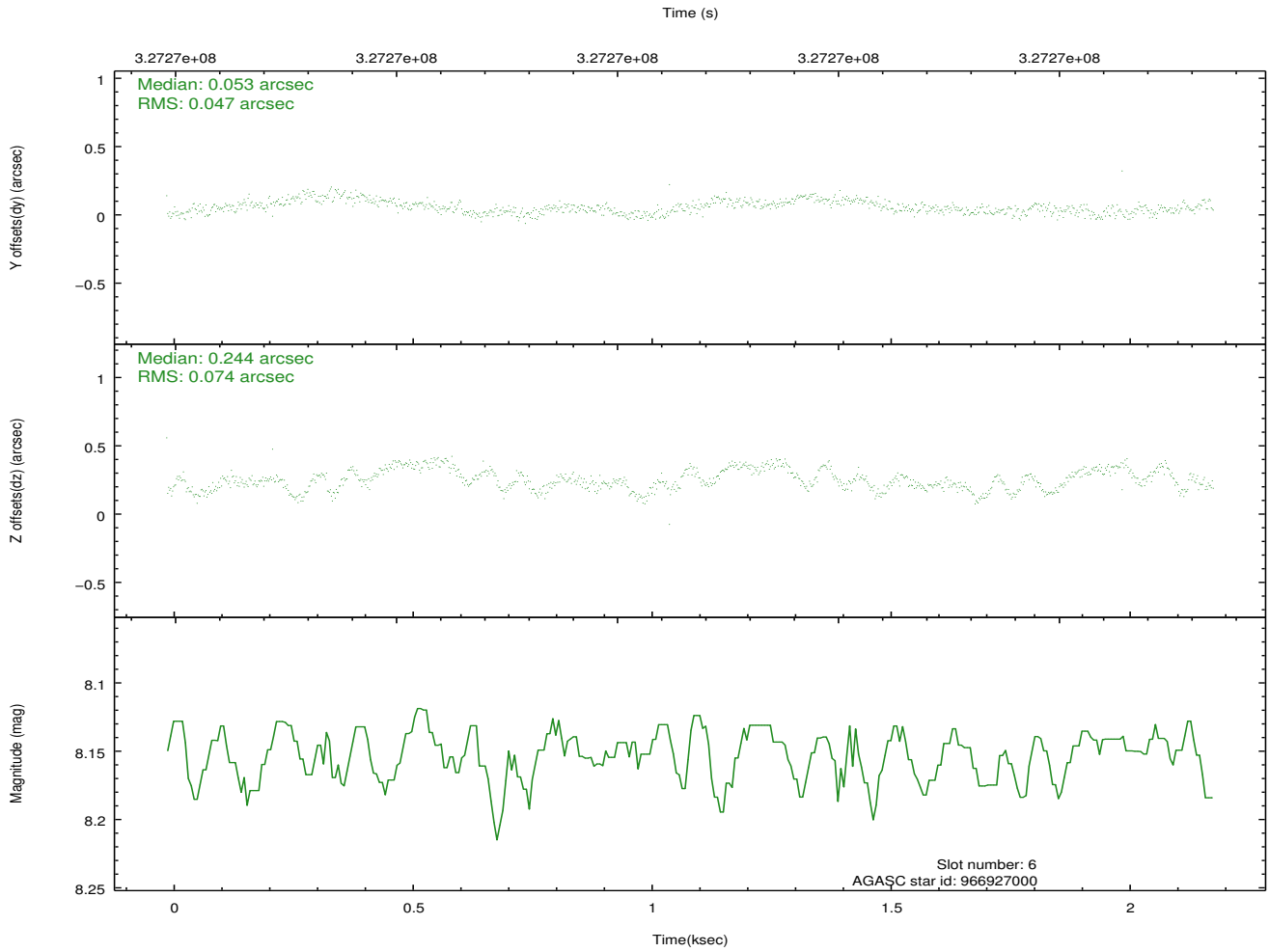
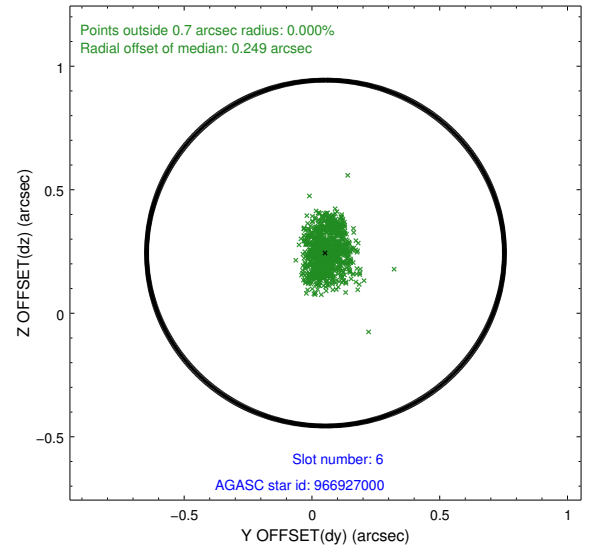
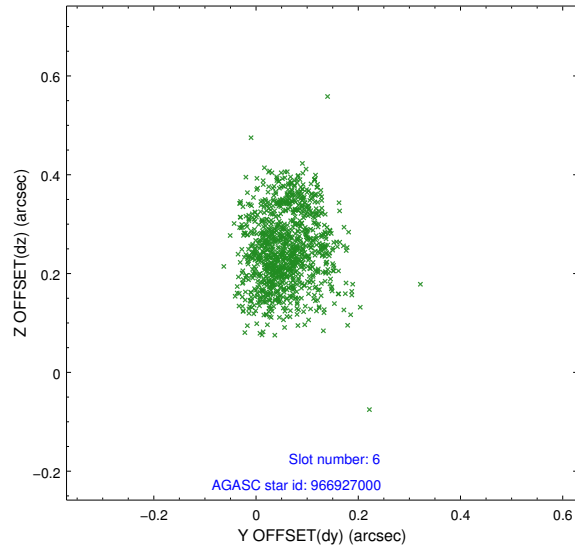
## 2.4.2 Slot 4



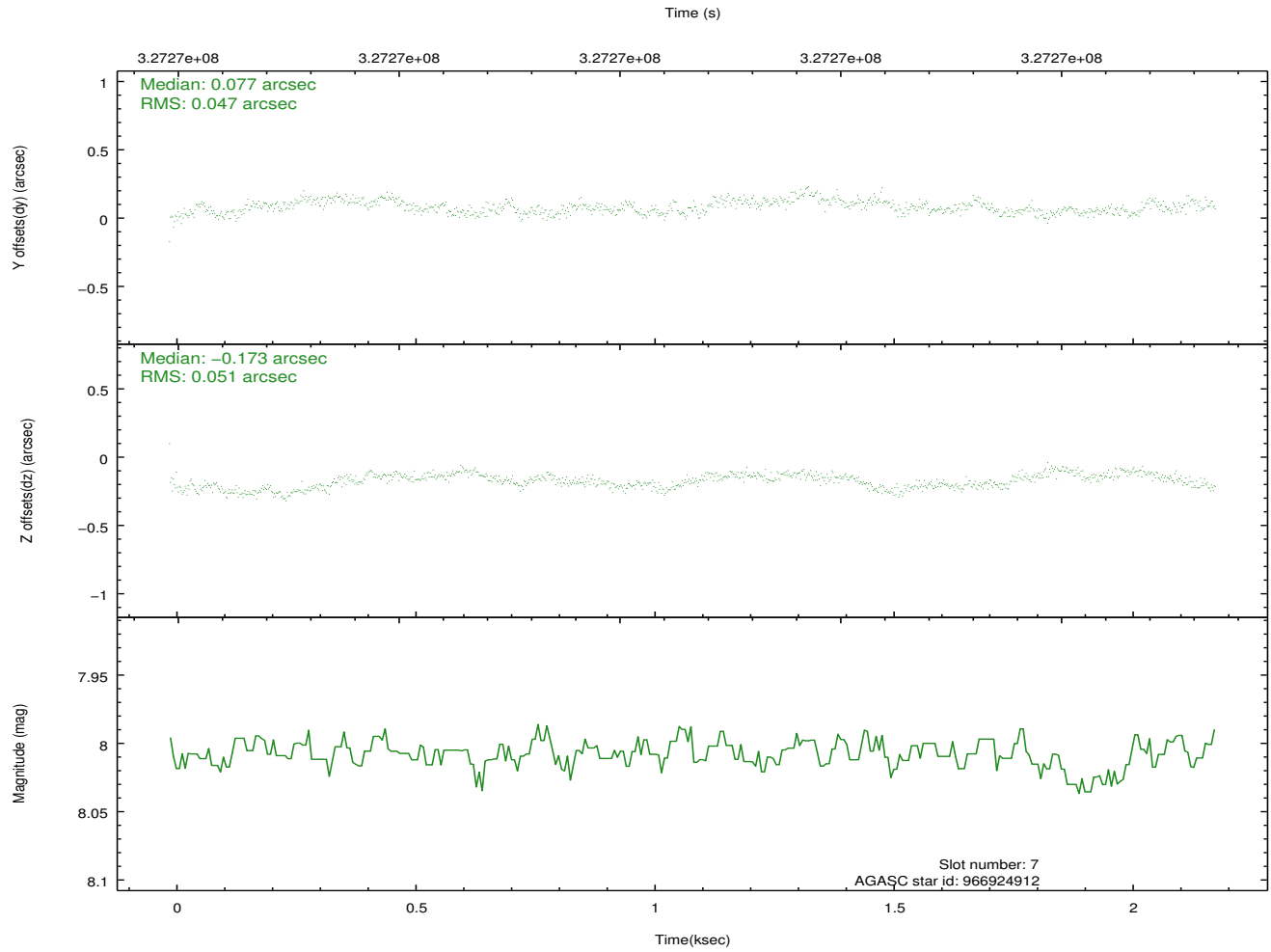
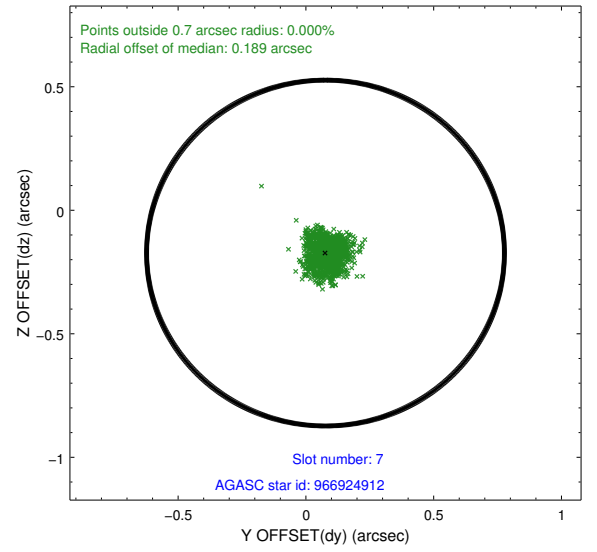
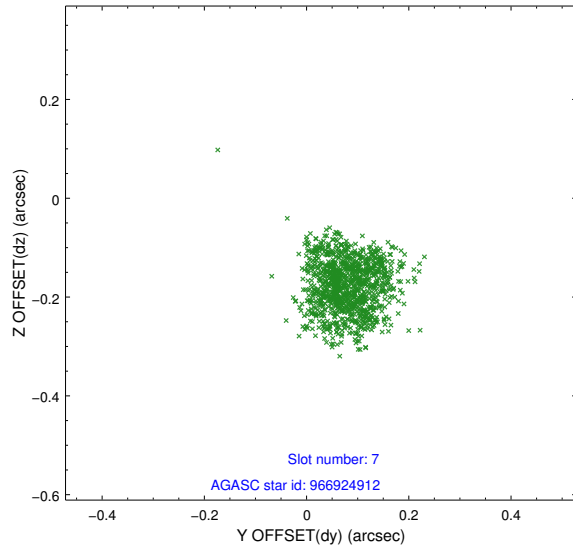
### 2.4.3 Slot 5



## 2.4.4 Slot 6

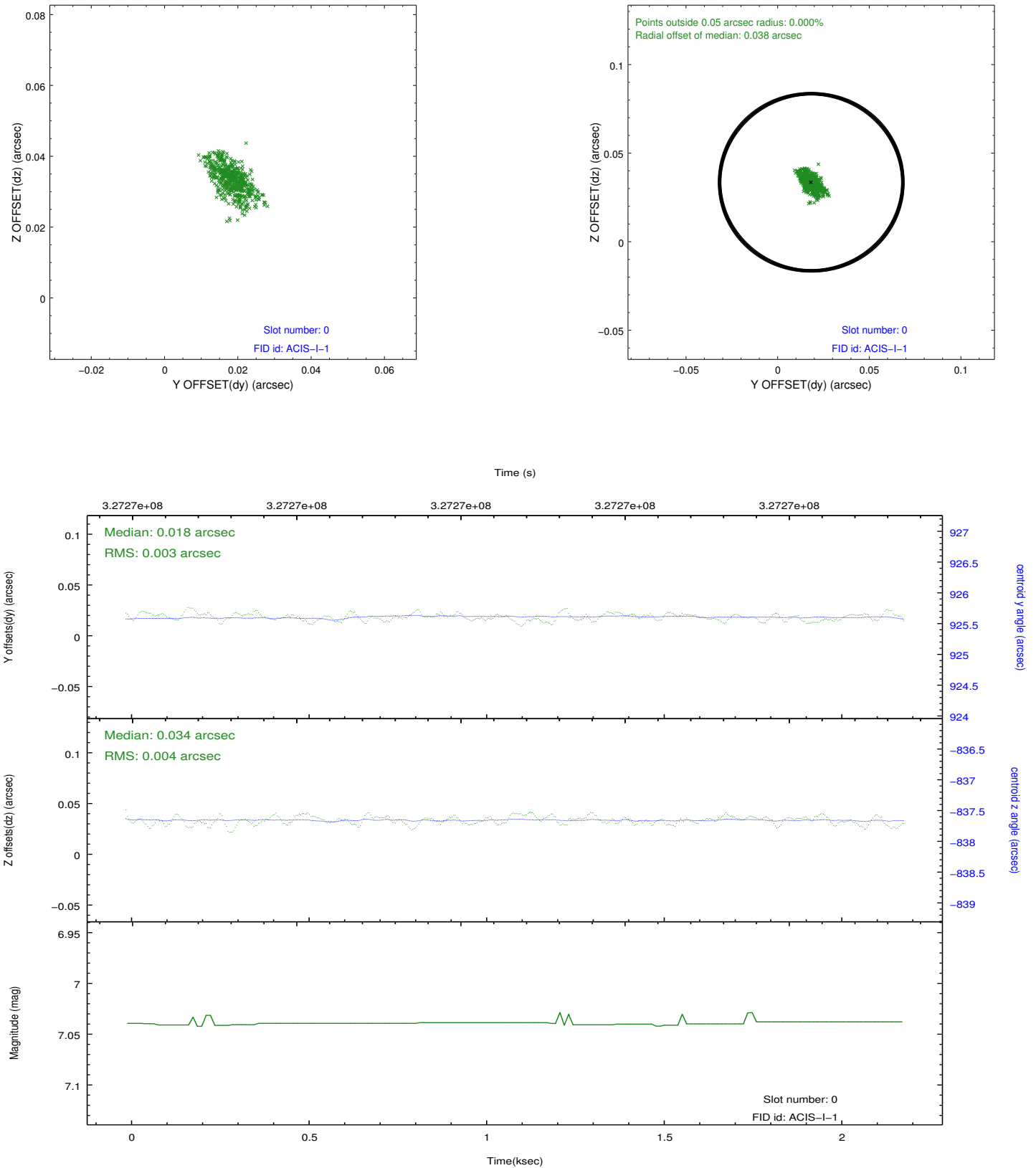


## 2.4.5 Slot 7

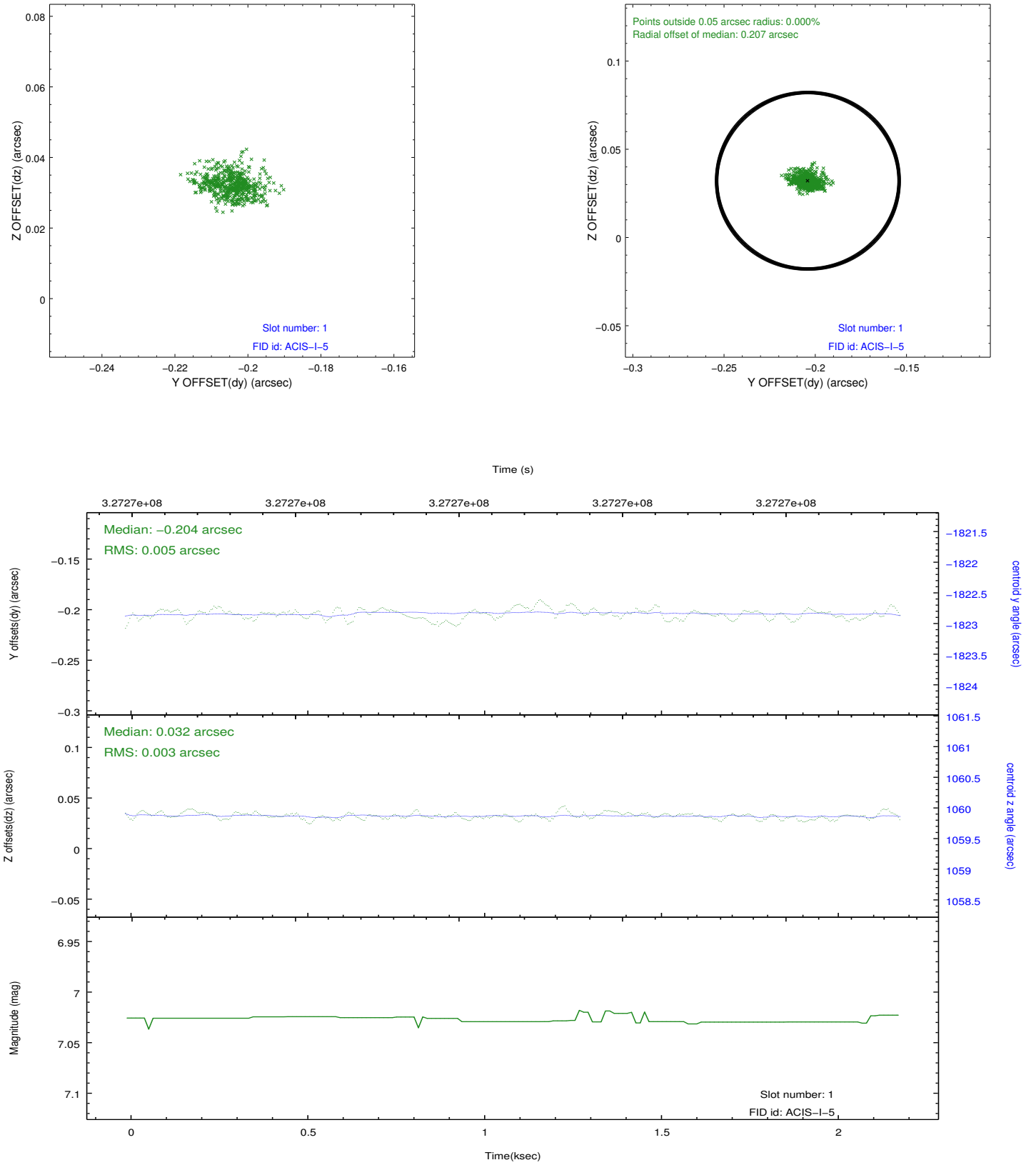


## 2.5 FID Slots

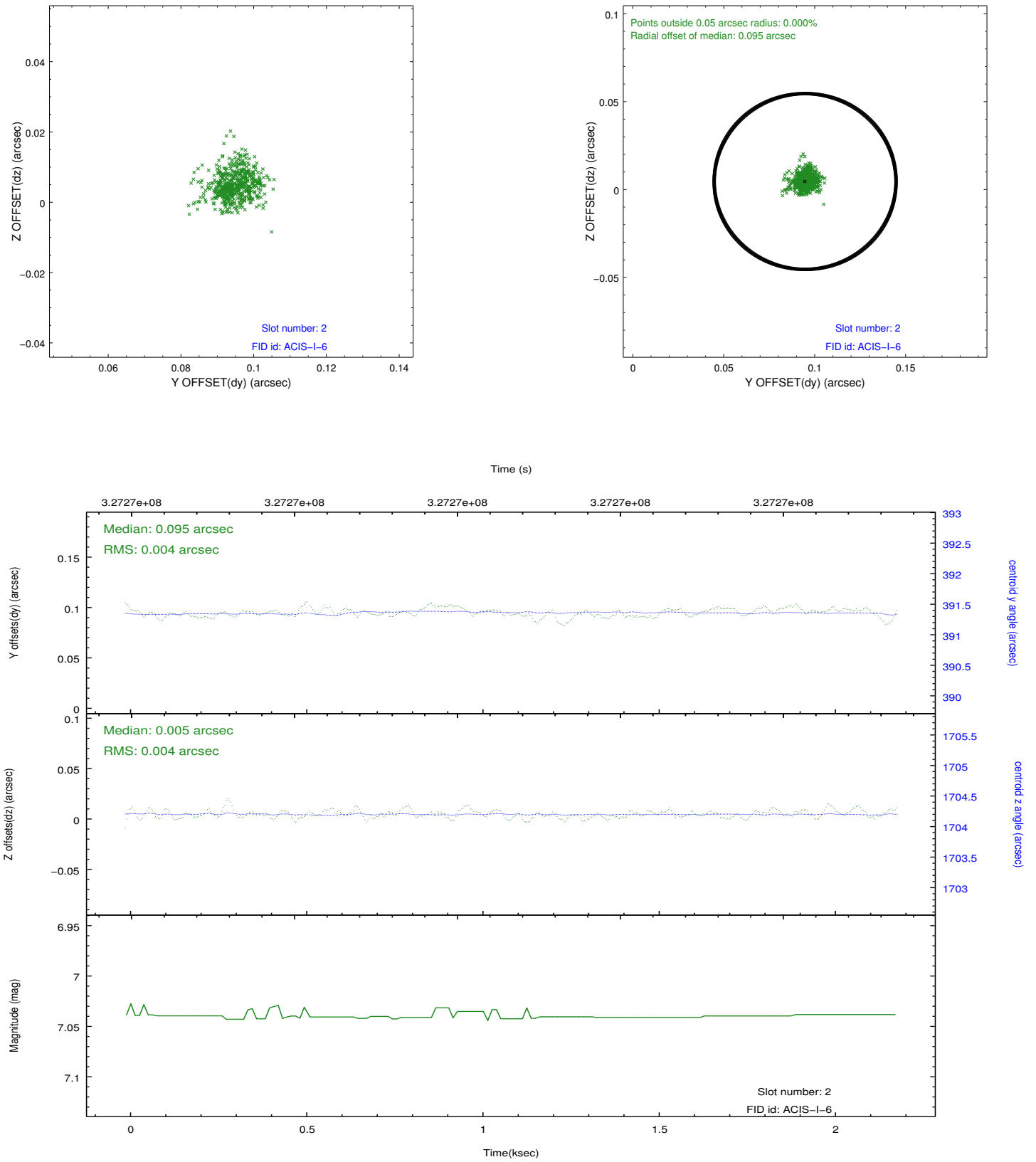
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18860001

## A.2 Comments

Joint proposal with NOAO.