

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10738 - L2 Version 2  
Chandra X-Ray Center

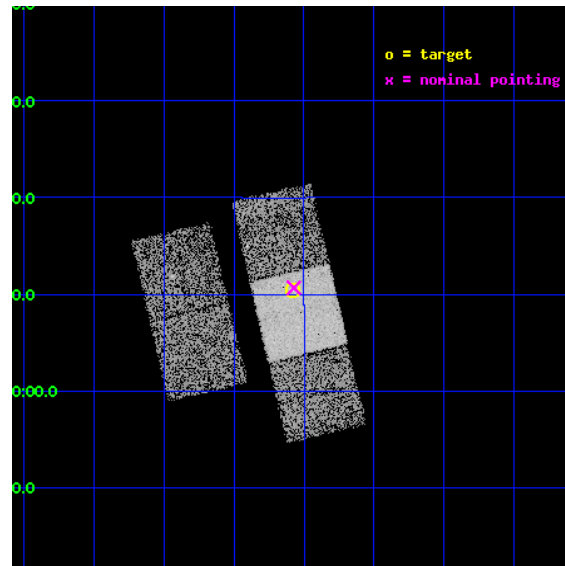
L2 Processing Date : Jun 1 2012

## 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

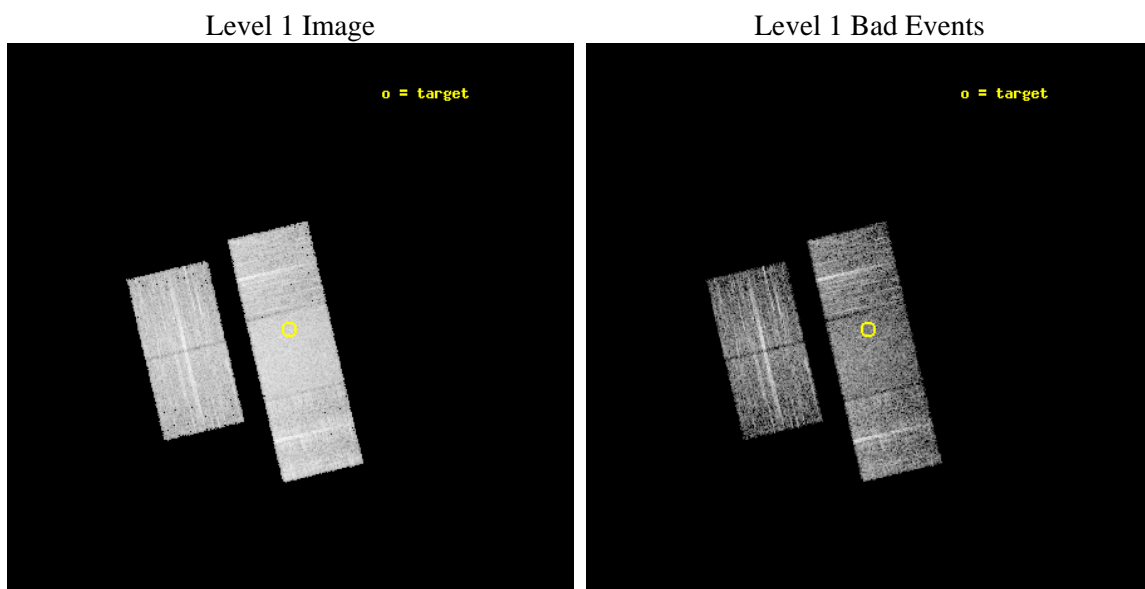
seq_num	701968	Sequence number
obs_id	10738	Observation id
title	A Chandra Snapshot Survey of Bright Mini-BAL Quasars	Proposal titl
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J105904.68+121024.0	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	164.769583	Observer's specified target RA [deg]
dec_targ	12.173333	Observer's specified target Dec [deg]
ra_nom	164.76796228341	Nominal RA [deg]
dec_nom	12.178019399909	Nominal Dec [deg]
roll_nom	76.860273179204	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4175.700032115	Sum of GTIs [s]
livetime	4121.1414370898	Livetime [s]
ontime2	4175.700032115	Sum of GTIs [s]
ontime3	4169.4180115461	Sum of GTIs [s]
ontime6	4175.700032115	Sum of GTIs [s]
ontime7	4175.700032115	Sum of GTIs [s]
ontime8	4175.700032115	Sum of GTIs [s]
l2events	42354	Number of level 2 events



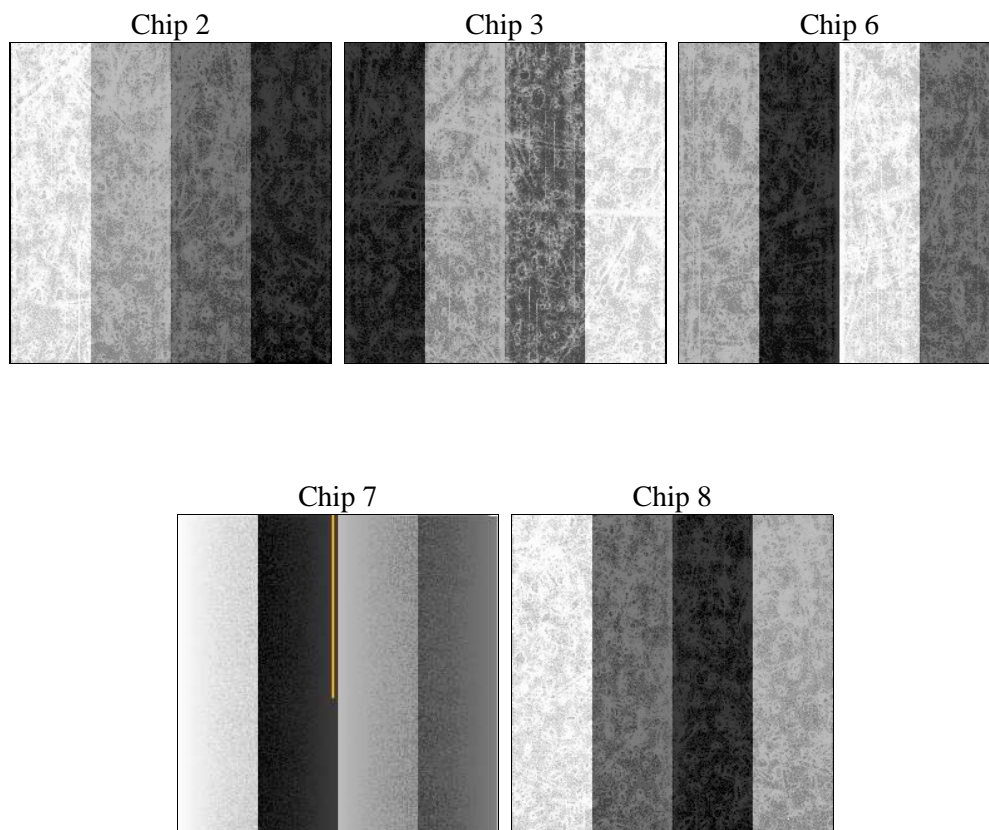
## 2 OBI

### 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	4175.700032115	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4175.700032115	Sum of GTIs [s]
date	2012-06-01T05:47:55	Date and time of file creation	ontime3	4169.4180115461	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4175.700032115	Sum of GTIs [s]
			ontime7	4175.700032115	Sum of GTIs [s]
			ontime8	4175.700032115	Sum of GTIs [s]
			l1events	278688	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	48570	46704	51727	69470	62217
rejected events	43687	41663	46382	45037	50123
rejected %	89%	89%	89%	64%	80%

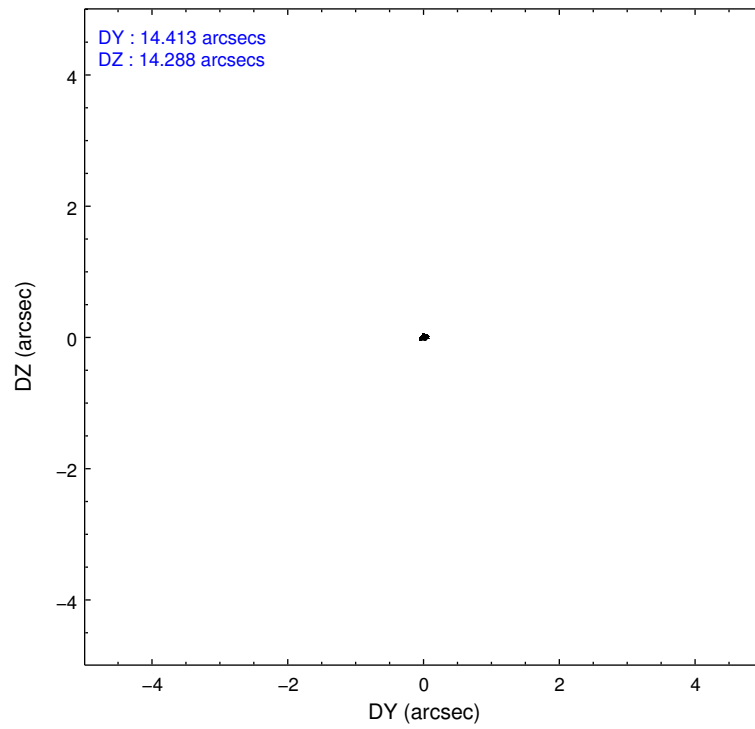
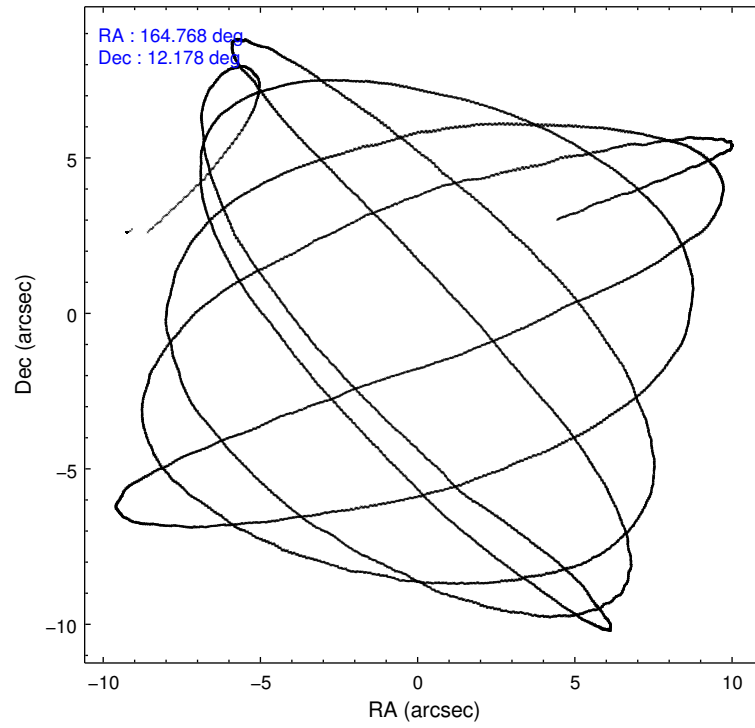
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2341	2527	2339	2480	4289
	4%	5%	4%	3%	6%
grade 1 events	38	32	32	89	48
	0%	0%	0%	0%	0%
grade 2 events	1196	1154	1319	5662	3162
	2%	2%	2%	8%	5%
grade 3 events	555	585	625	2307	1470
	1%	1%	1%	3%	2%
grade 4 events	521	538	555	2318	1308
	1%	1%	1%	3%	2%
grade 5 events	1923	2381	2506	6352	3241
	3%	5%	4%	9%	5%
grade 6 events	1007	1064	1297	15540	3684
	2%	2%	2%	22%	5%
grade 7 events	40989	38423	43054	34722	45015
	84%	82%	83%	49%	72%

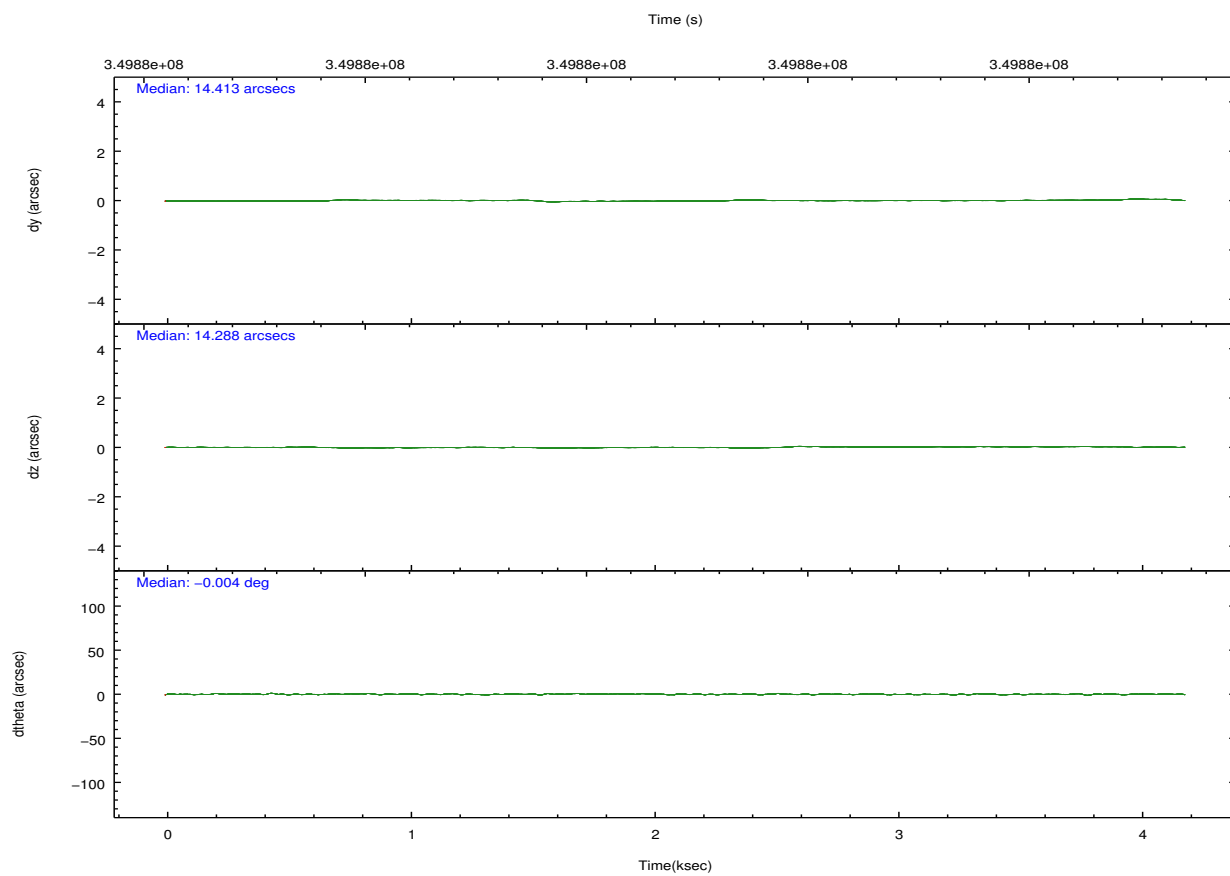
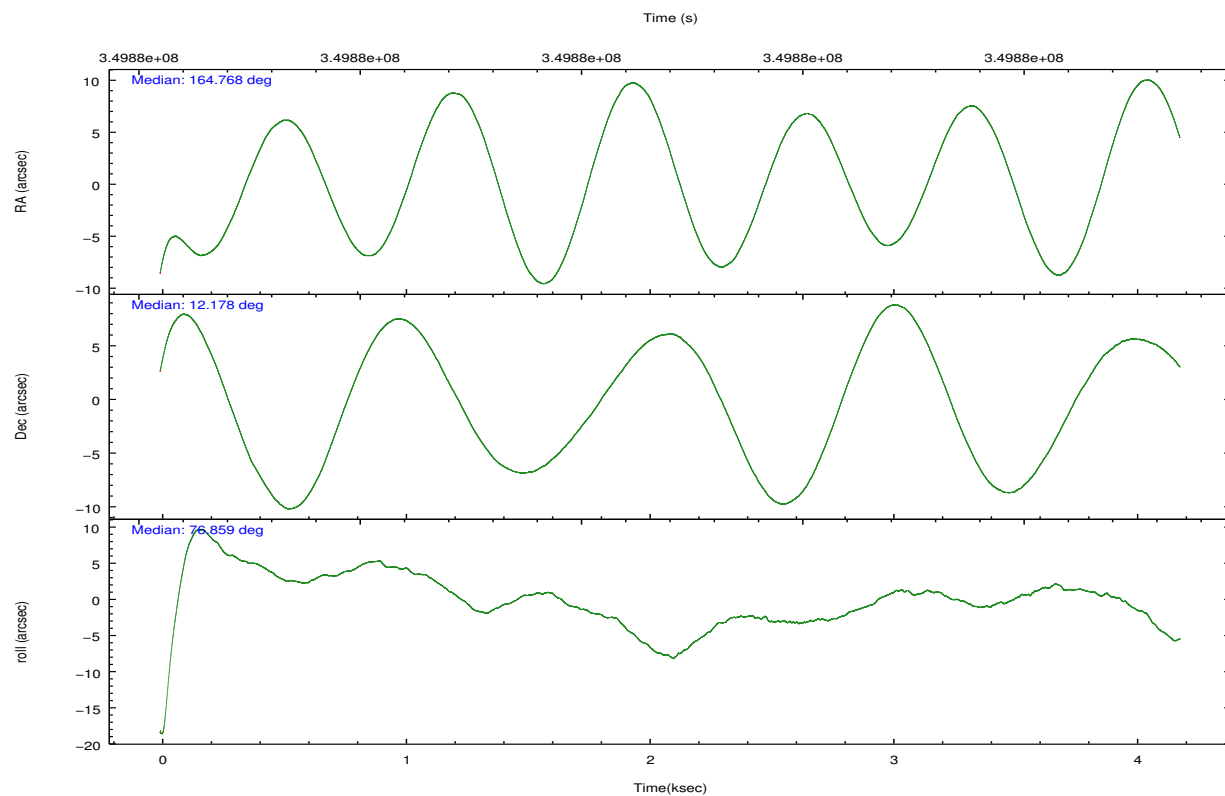


## 2.2 Compared Parameters

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	164.776483	164.7679622834122	CCD I2 on	O1	Y
[deg] Pointing Dec	12.151869	12.17801939990941	CCD I3 on	O2	Y
[deg] Pointing Roll	76.701909	76.8602731792038	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)	349876494.184000	349875167.24479	CCD S5 on	N	N
Observation start date	2009-02-01T11:53:48	2009-02-01T11:32:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	349880494.184000	349880913.39507	On-chip summing requested	N	N
Observation end date	2009-02-01T13:00:28	2009-02-01T13:08:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



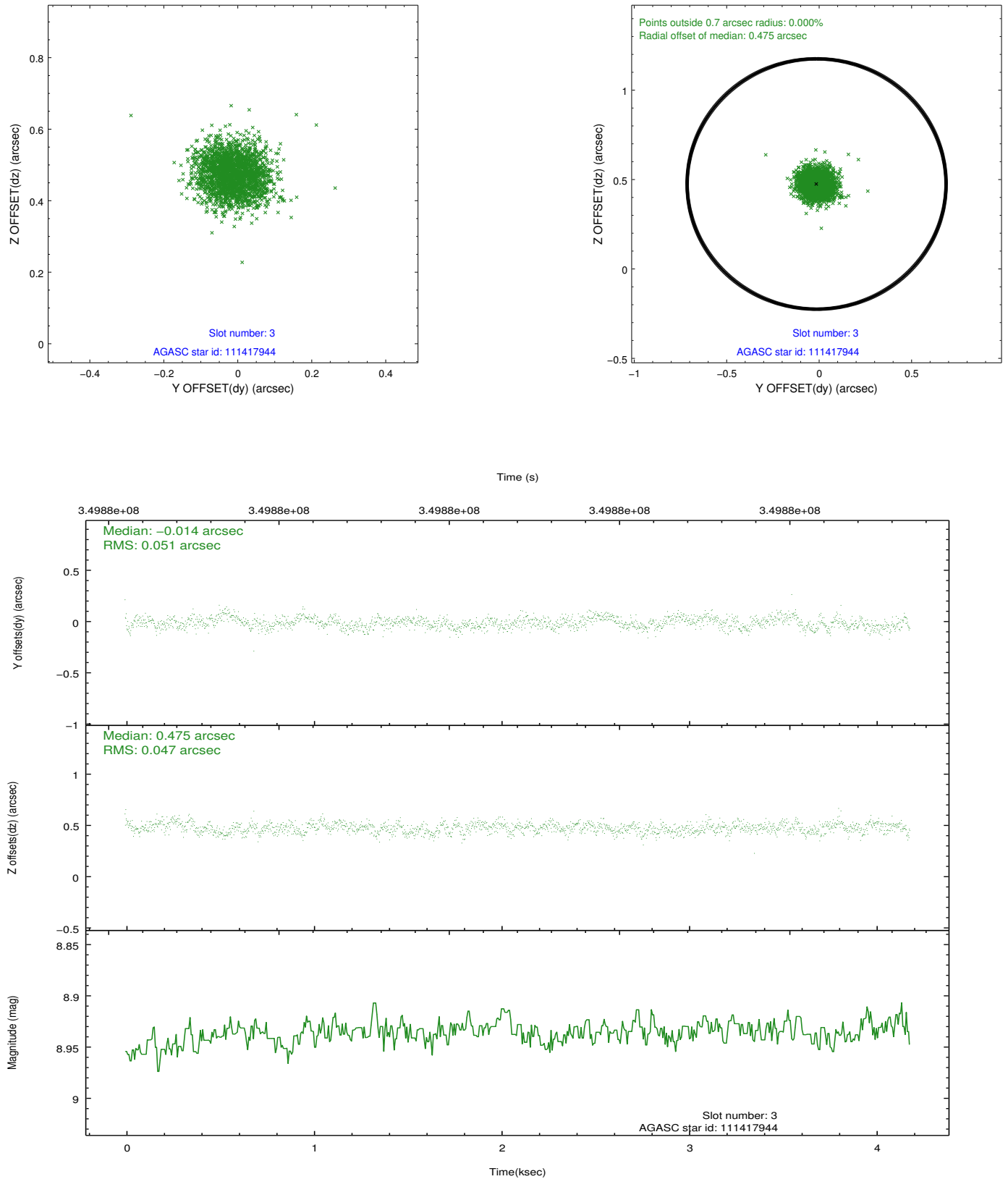


### Slot Statistics

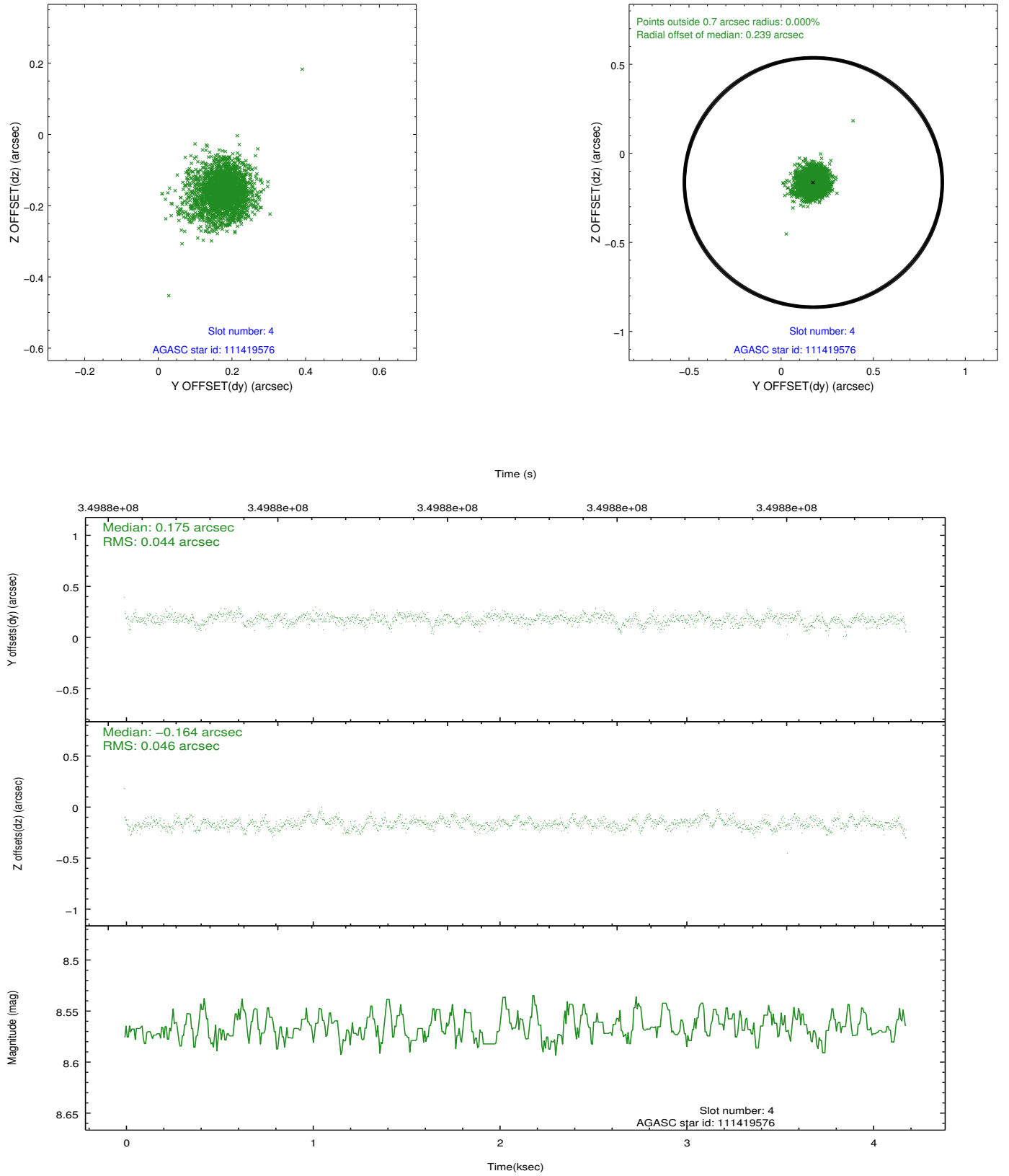
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	1021	-0.069	-0.031	0.007	0.010	0.000000	0.000000	-767.43	-1735.63
1	FID	ACIS-S-4	7.02	1021	0.181	0.041	0.005	0.009	0.000000	0.000000	2145.41	171.39
2	FID	ACIS-S-5	7.05	1021	-0.143	-0.002	0.006	0.011	0.000000	0.000000	-1818.45	166.70
3	GUIDE	111417944	8.94	2039	-0.014	0.475	0.074	0.118	164.863648	11.633672	-1744.73	-727.69
4	GUIDE	111419576	8.57	2041	0.175	-0.164	0.067	0.108	165.200125	11.970471	-292.12	-1602.20
5	GUIDE	111421496	6.75	2042	-0.058	-0.195	0.063	0.110	164.921203	11.705870	-1445.30	-864.60
6	GUIDE	111811832	9.24	2041	-0.165	-0.287	0.101	0.162	164.435186	12.713926	1693.02	1631.17
7	GUIDE	111812456	9.53	2037	0.049	0.172	0.123	0.210	165.472939	12.643276	2288.48	-1972.18

## 2.4 Star Slots

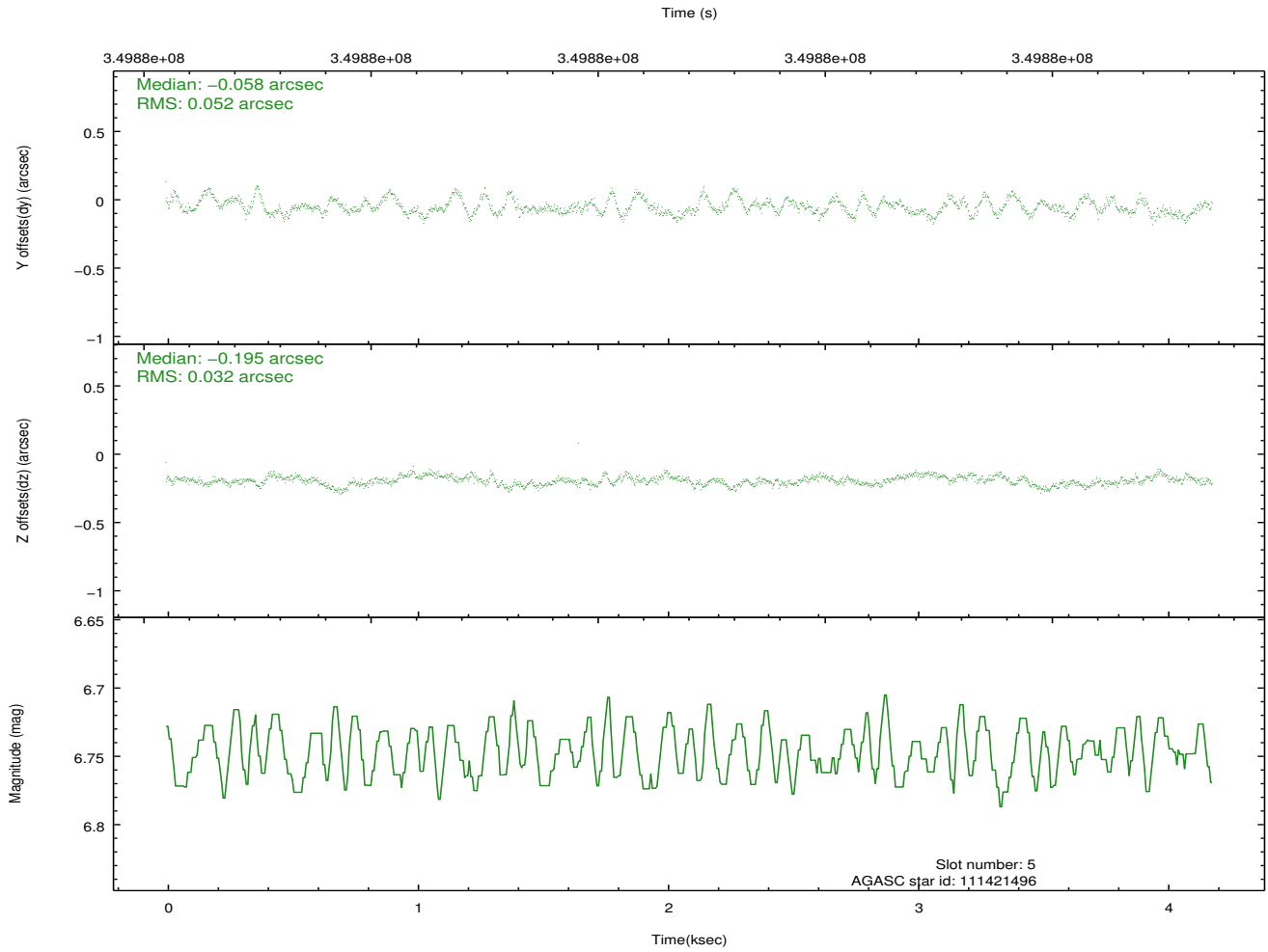
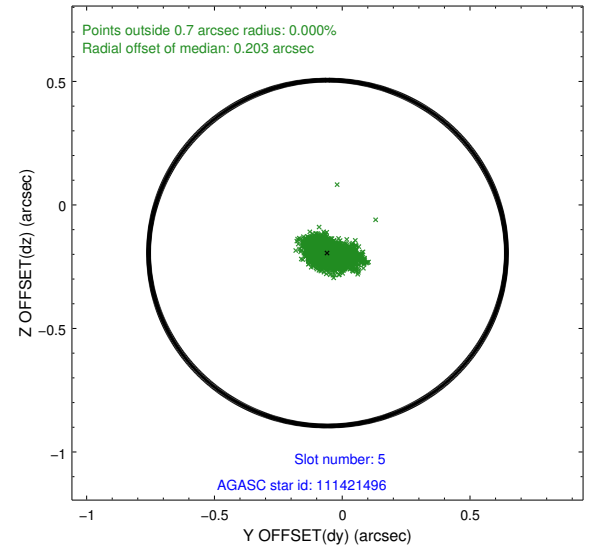
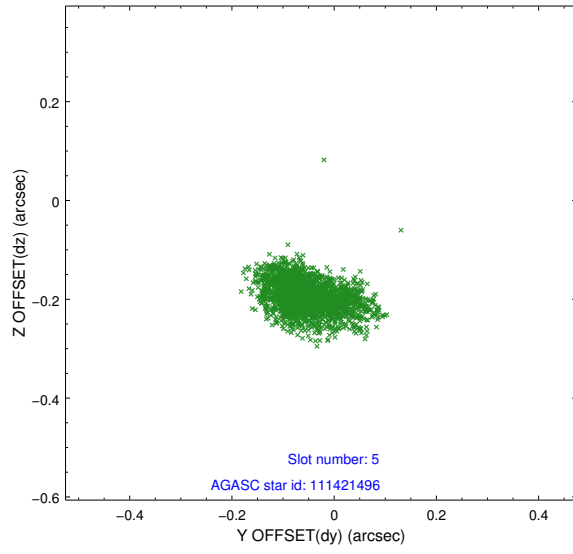
### 2.4.1 Slot 3



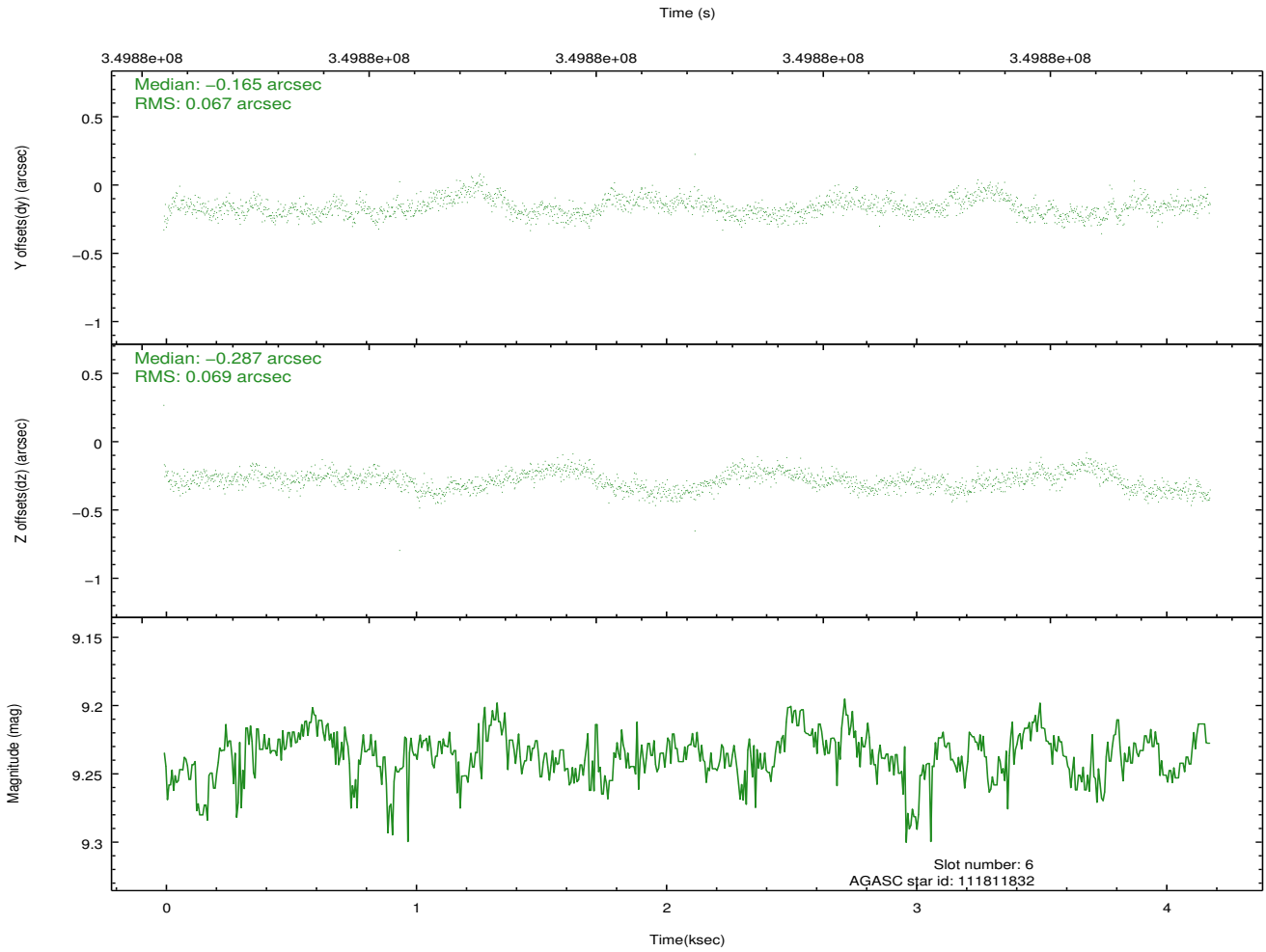
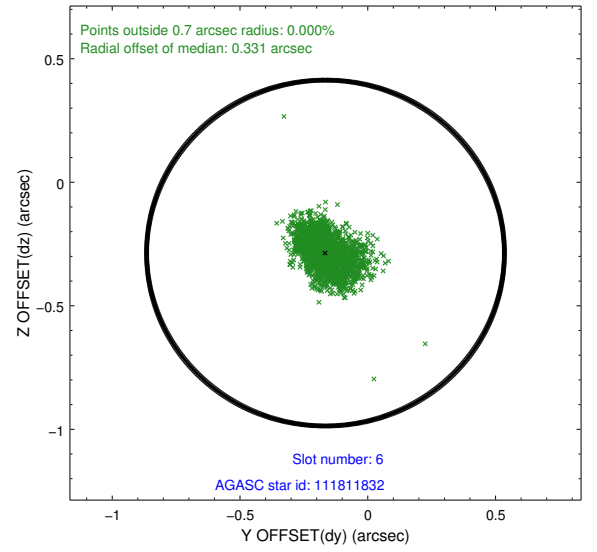
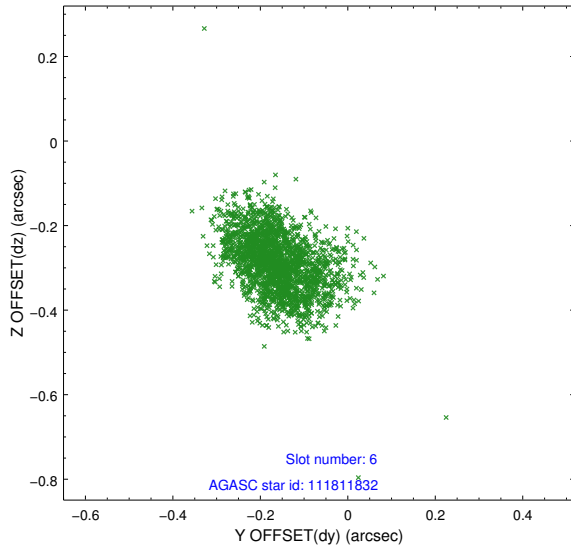
## 2.4.2 Slot 4



### 2.4.3 Slot 5

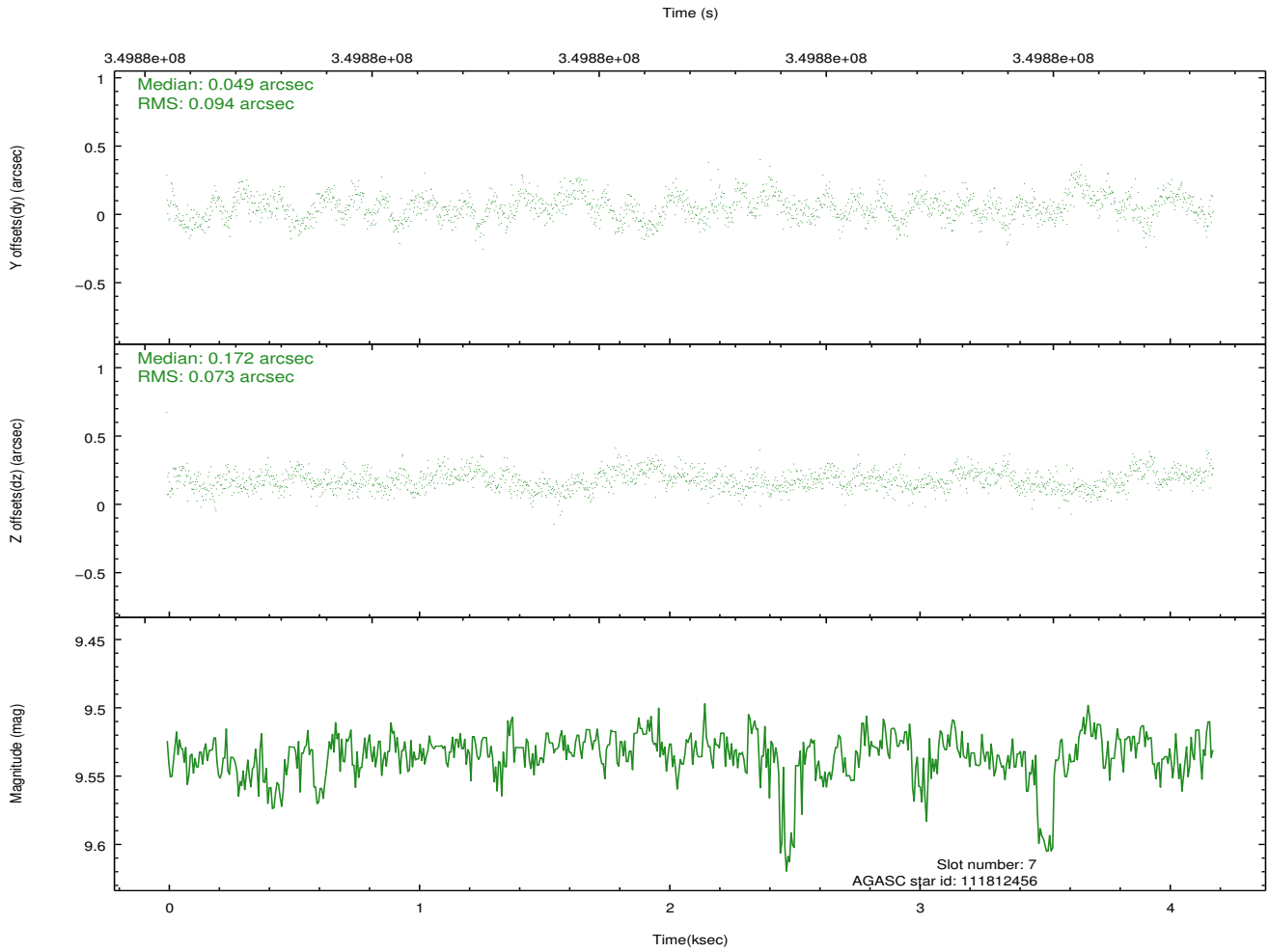
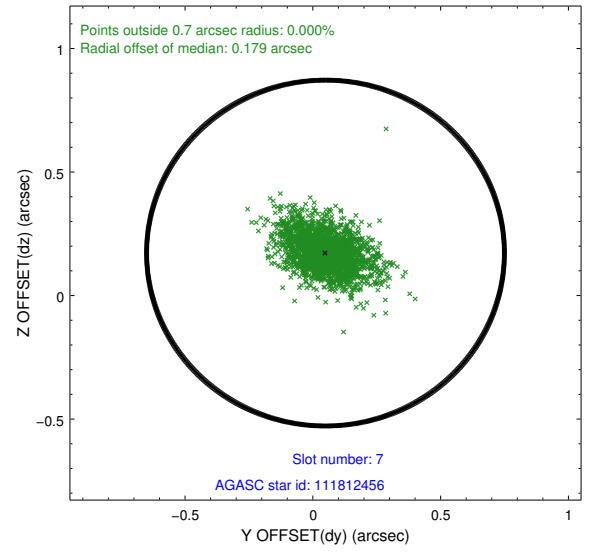
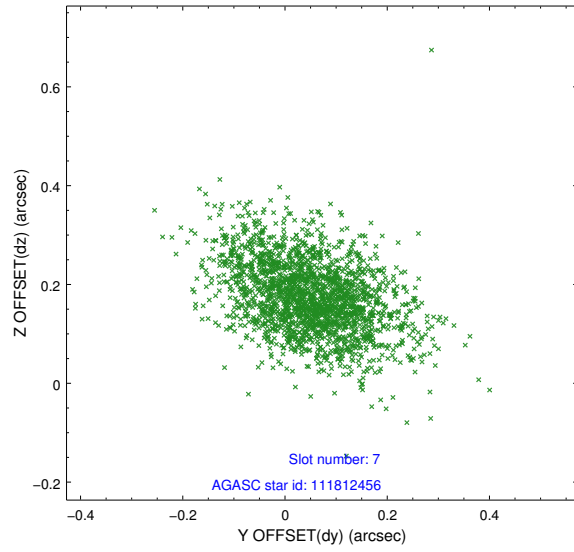


## 2.4.4 Slot 6



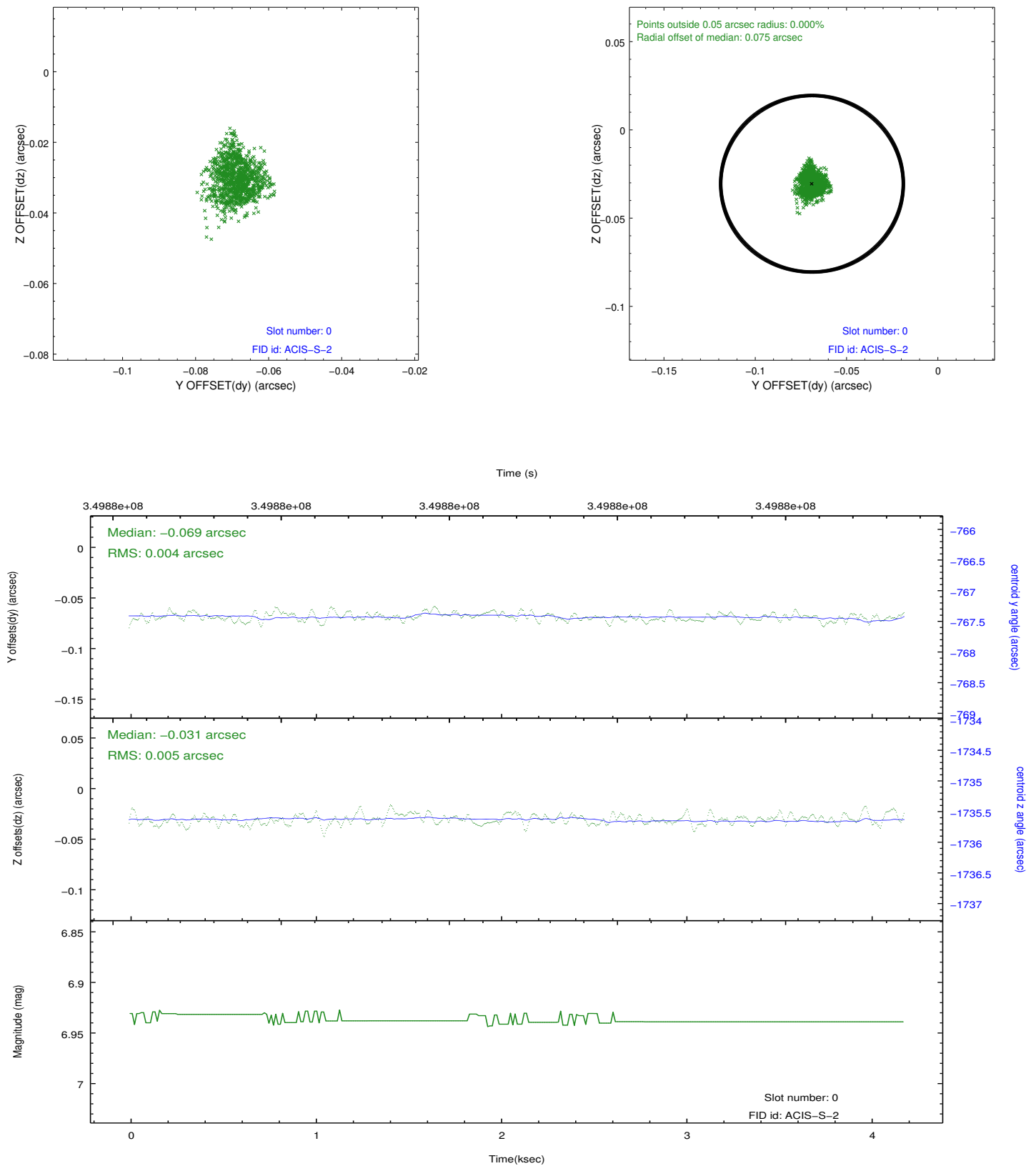


## 2.4.5 Slot 7

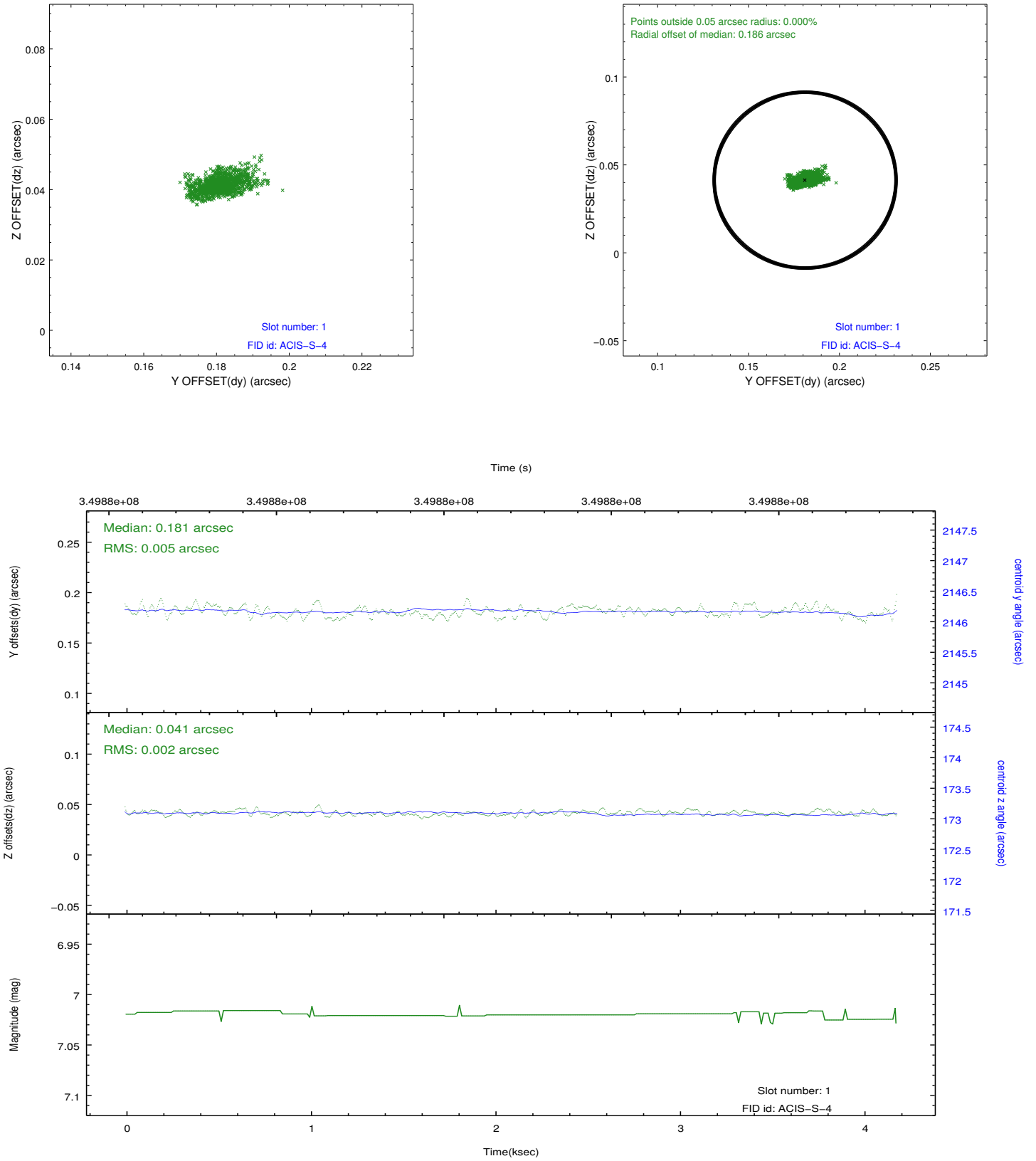


## 2.5 FID Slots

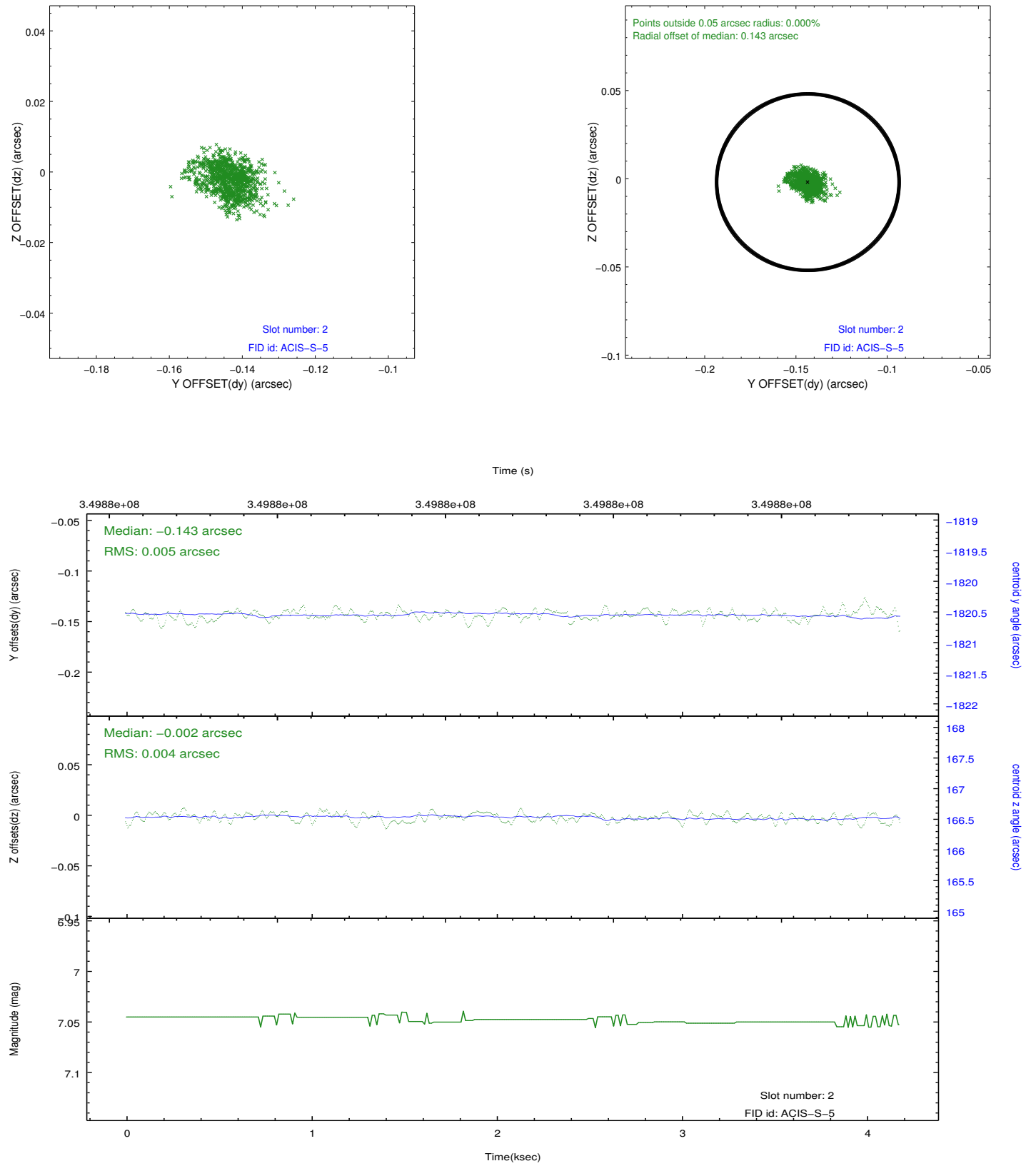
### 2.5.1 Slot 0



## 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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.17570003

### A.2 Comments