

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8230 - L2 Version 2  
Chandra X-Ray Center

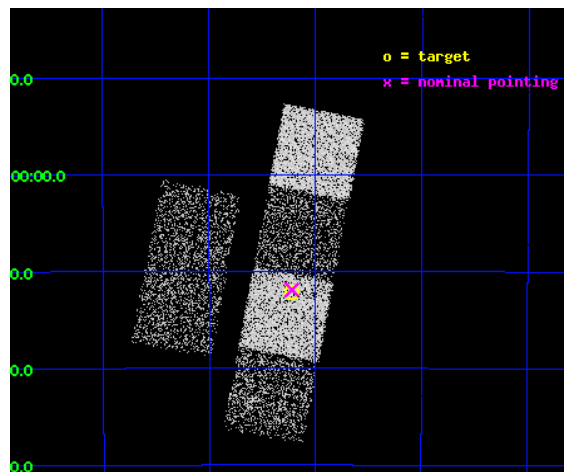
L2 Processing Date : May 8 2012

## 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

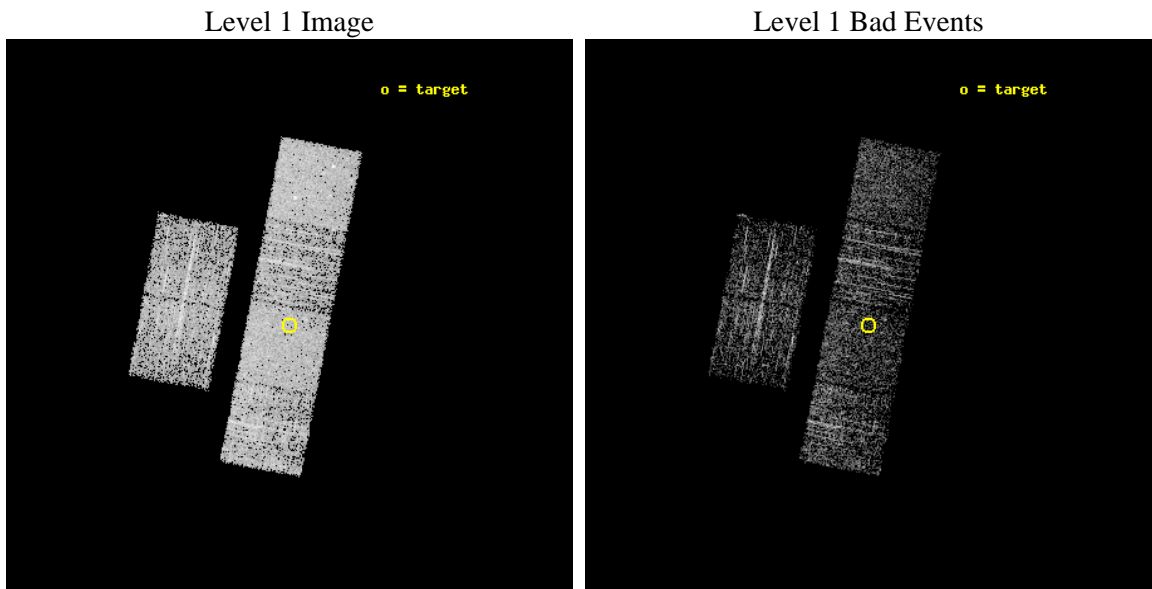
seq_num	900720	Sequence number
obs_id	8230	Observation id
title	Chandra Identification of Compact ASCA Galactic Objects - Part II	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J170112-4212	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.304167	Observer's specified target RA [deg]
dec_targ	-42.203	Observer's specified target Dec [deg]
ra_nom	255.30517057889	Nominal RA [deg]
dec_nom	-42.198391094309	Nominal Dec [deg]
roll_nom	100.78584169666	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1297.8644595146	Sum of GTIs [s]
livetime	1281.4301182481	Livetime [s]
ontime2	1297.9054995179	Sum of GTIs [s]
ontime3	1297.7413395047	Sum of GTIs [s]
ontime5	1297.8234195113	Sum of GTIs [s]
ontime6	1297.782379508	Sum of GTIs [s]
ontime7	1297.8644595146	Sum of GTIs [s]
ontime8	1297.7002995014	Sum of GTIs [s]
l2events	21660	Number of level 2 events



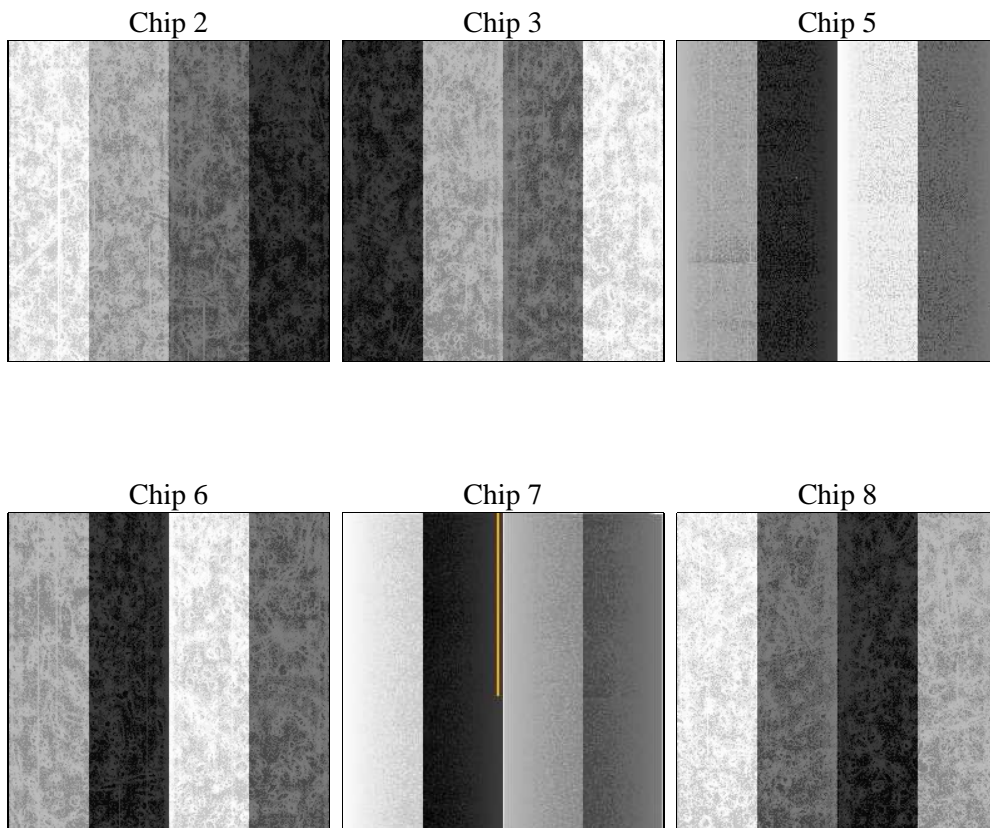
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1297.8644595146	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	1297.9054995179	Sum of GTIs [s]
date	2012-05-08T14:36:47	Date and time of file creation	ontime3	1297.7413395047	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	1297.8234195113	Sum of GTIs [s]
			ontime6	1297.782379508	Sum of GTIs [s]
			ontime7	1297.8644595146	Sum of GTIs [s]
			ontime8	1297.7002995014	Sum of GTIs [s]
			l1events	92826	Number of level 1 events

### 2.1.4 Events

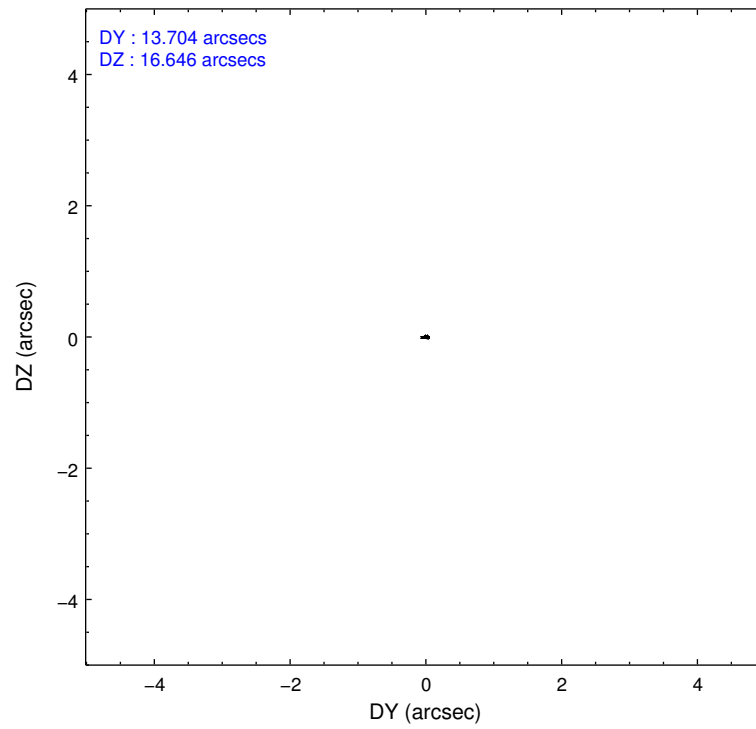
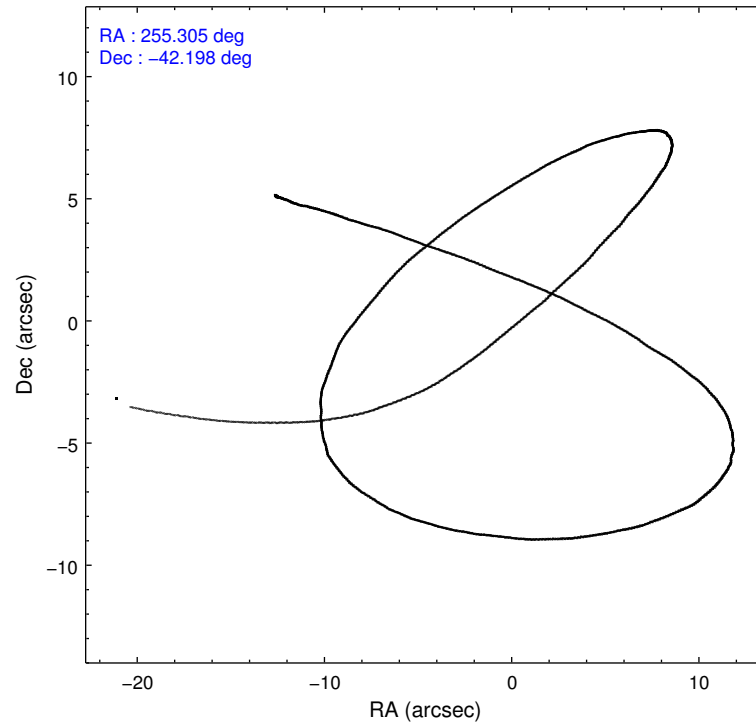
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	12604	13040	19719	13484	17810	16169
rejected events	10971	11456	10692	11822	10282	12821
rejected %	87%	87%	54%	87%	57%	79%

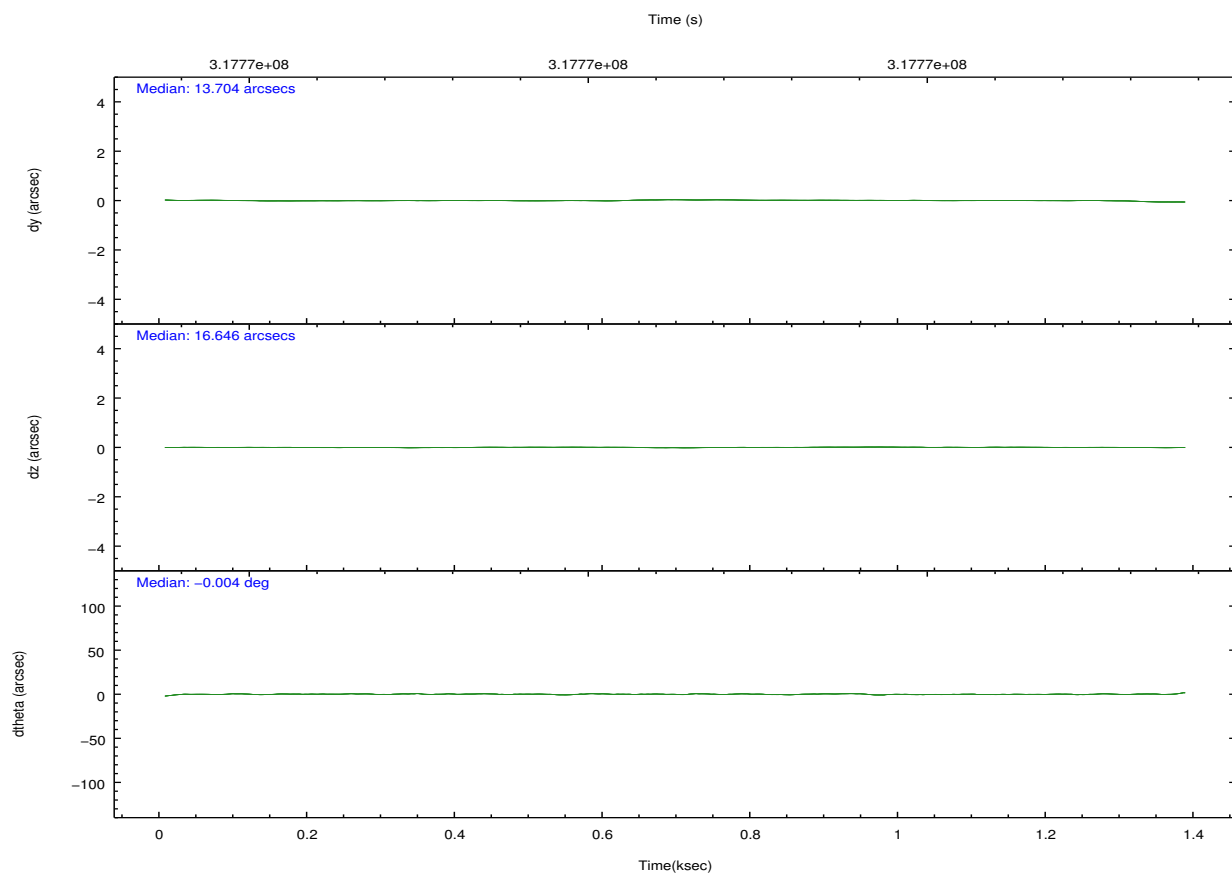
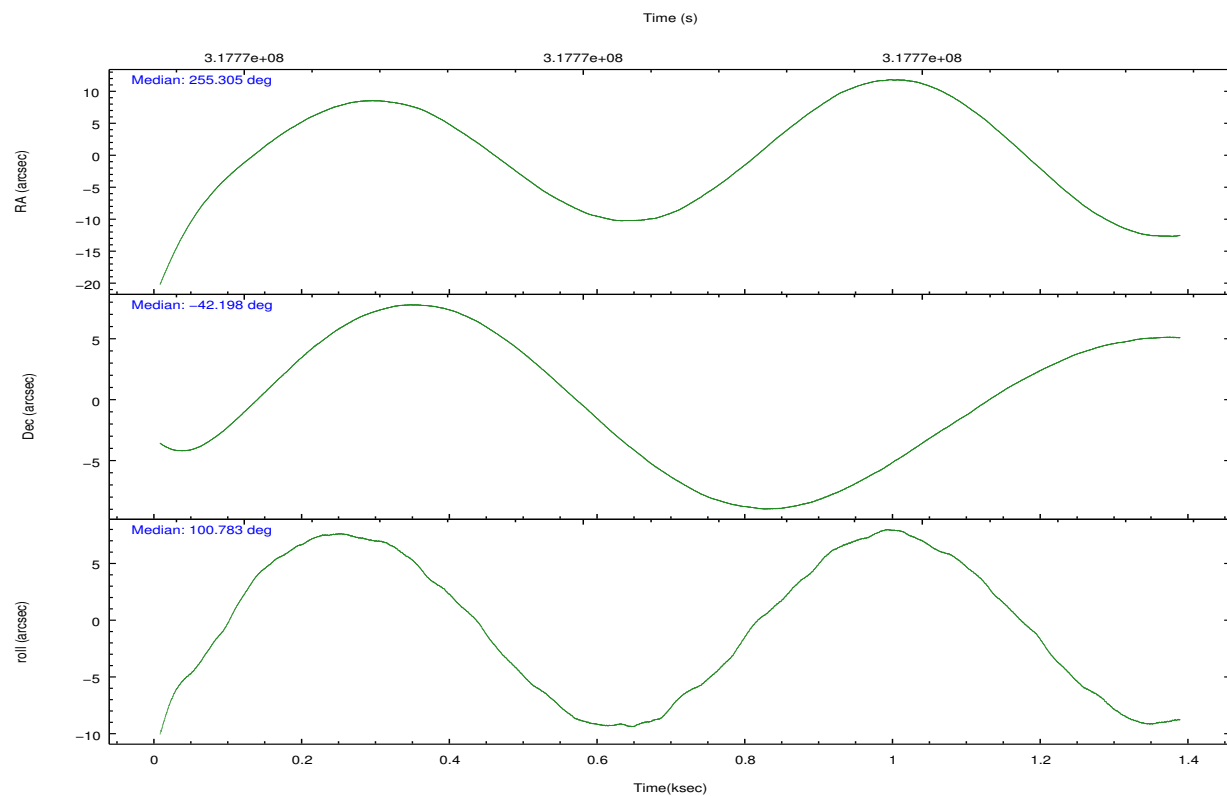
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	743	741	962	668	678	1125
	5%	5%	4%	4%	3%	6%
grade 1 events	5	5	52	10	20	6
	0%	0%	0%	0%	0%	0%
grade 2 events	356	264	2727	388	1575	812
	2%	2%	13%	2%	8%	5%
grade 3 events	124	139	353	150	597	302
	0%	1%	1%	1%	3%	1%
grade 4 events	156	166	348	137	643	283
	1%	1%	1%	1%	3%	1%
grade 5 events	495	588	1444	578	1661	835
	3%	4%	7%	4%	9%	5%
grade 6 events	262	279	4685	329	4074	841
	2%	2%	23%	2%	22%	5%
grade 7 events	10463	10858	9148	11224	8562	11965
	83%	83%	46%	83%	48%	73%

## 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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	255.329778	255.3051705788946	CCD I2 on	O2	Y
[deg] Pointing Dec	-42.219109	-42.19839109430905	CCD I3 on	O3	Y
[deg] Pointing Roll	100.645733	100.7858416966608	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	317769630.184000	317768597.36121	CCD S5 on	N	N
Observation start date	2008-01-26T21:19:25	2008-01-26T21:03:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	317770830.184000	317771850.19886	On-chip summing requested	N	N
Observation end date	2008-01-26T21:39:25	2008-01-26T21:57:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





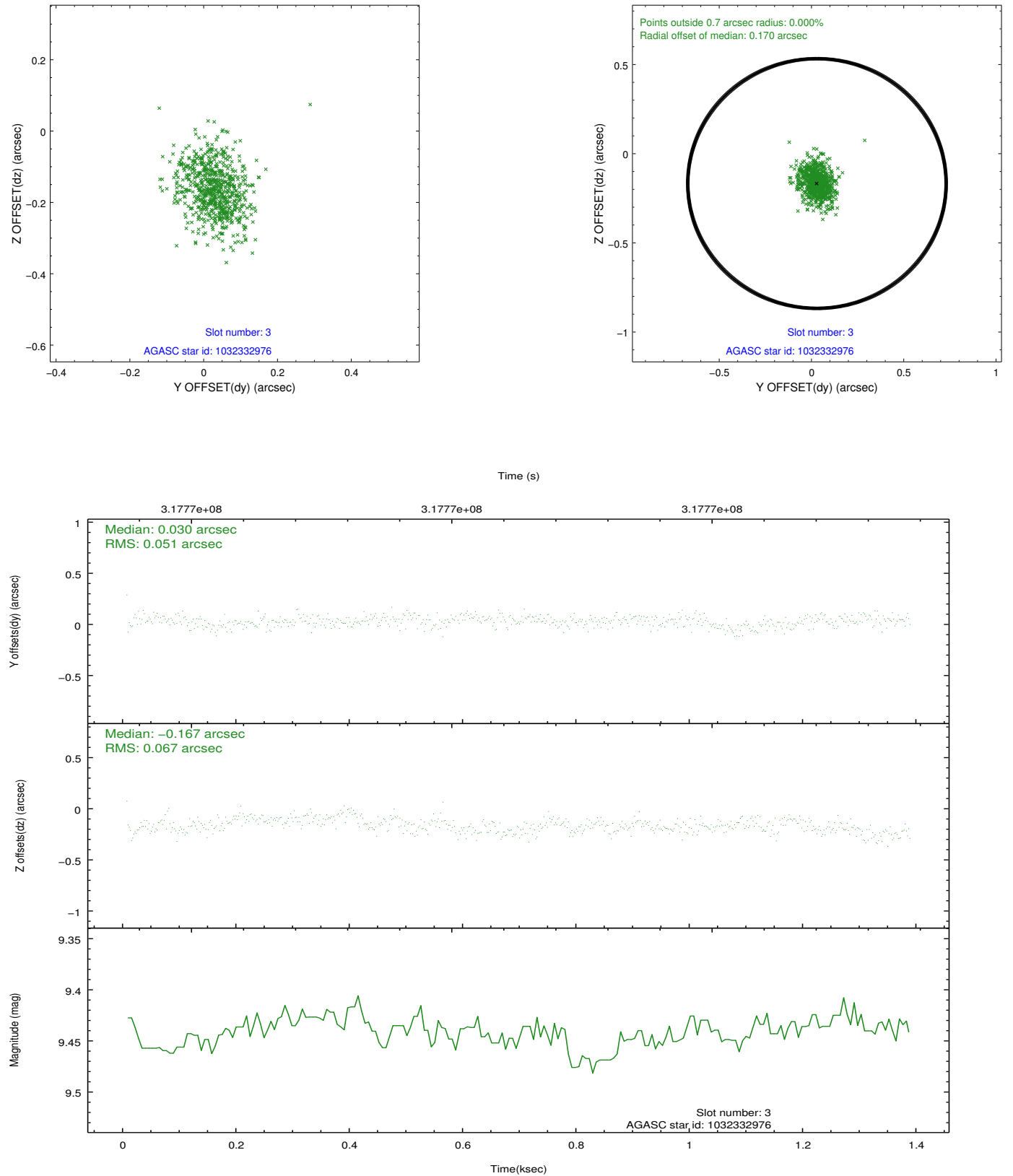
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	337	-0.044	-0.045	0.007	0.015	0.000000	0.000000	-766.70	-1738.11
1	FID	ACIS-S-4	7.18	337	0.185	0.033	0.007	0.015	0.000000	0.000000	2144.62	165.43
2	FID	ACIS-S-5	7.22	337	-0.172	0.020	0.007	0.015	0.000000	0.000000	-1813.49	164.59
3	GUIDE	1032332976	9.44	674	0.030	-0.167	0.088	0.151	254.916358	-42.504845	-811.71	1268.75
4	GUIDE	1032341952	7.18	675	-0.372	-0.251	0.049	0.082	254.946907	-41.627000	2280.67	621.02
5	GUIDE	1032454880	7.83	675	0.053	0.154	0.058	0.097	255.805803	-42.215139	-221.10	-1248.25
6	GUIDE	1032456032	8.39	675	0.092	0.161	0.063	0.099	256.011351	-42.138769	-59.85	-1841.87
7	GUIDE	1032458288	9.13	673	0.196	0.100	0.103	0.156	255.516912	-42.294354	-359.42	-442.16

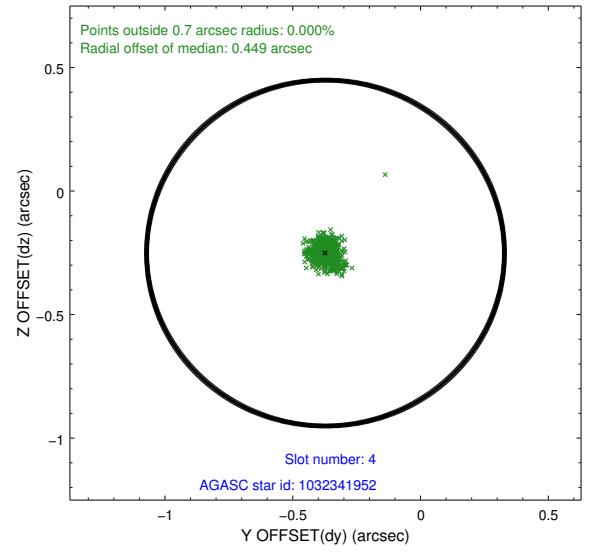
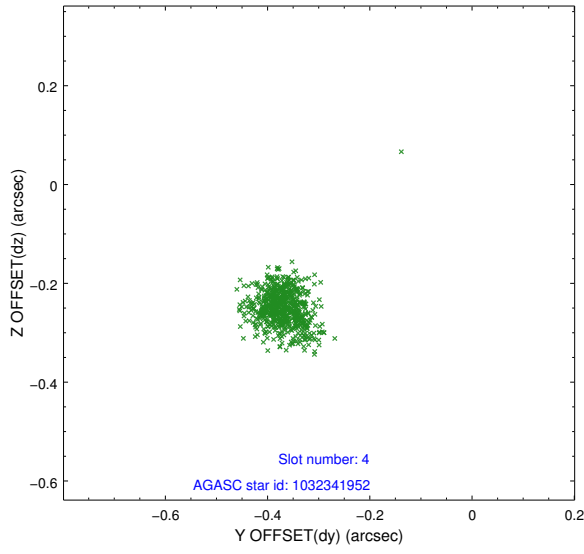


## 2.4 Star Slots

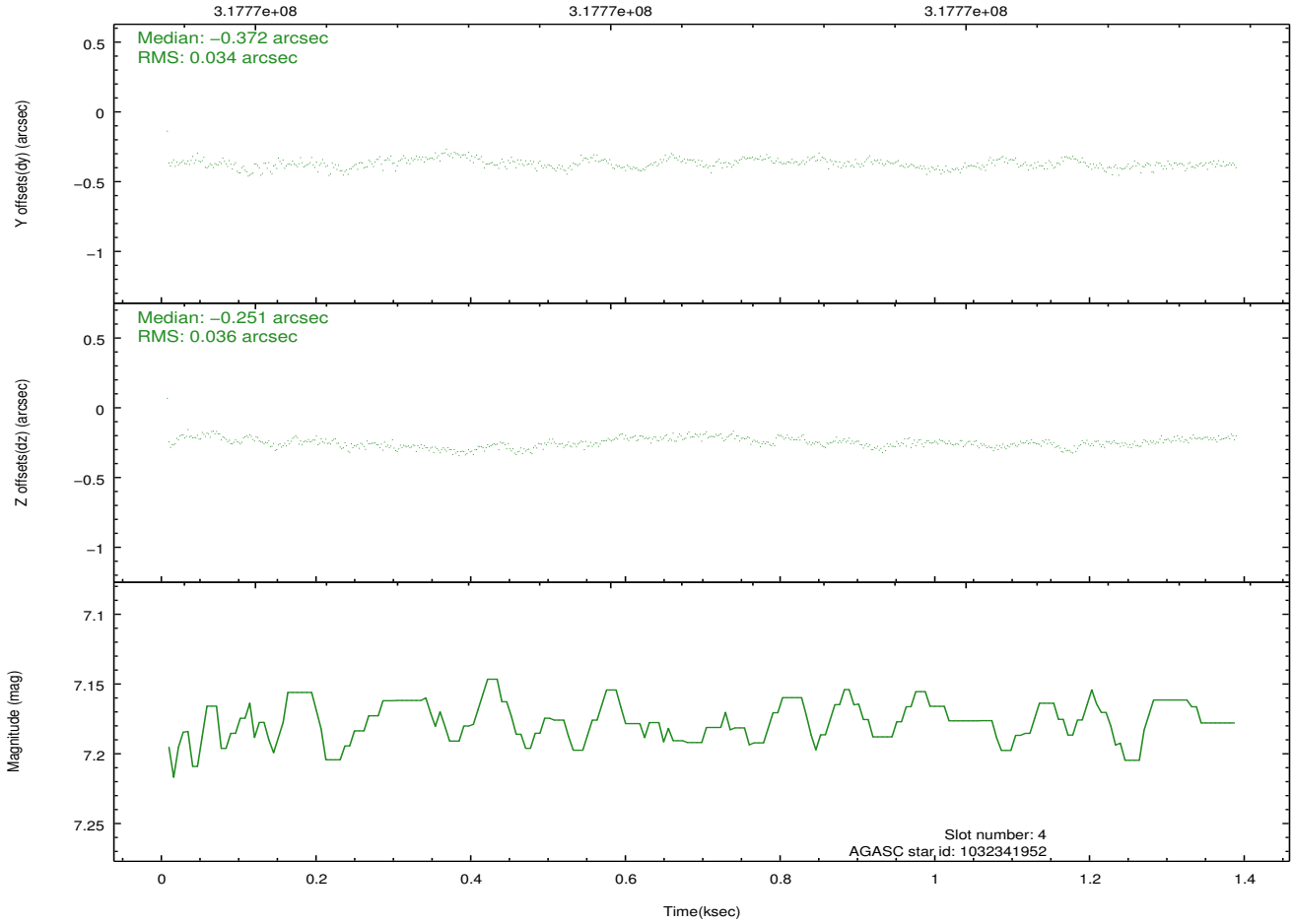
### 2.4.1 Slot 3



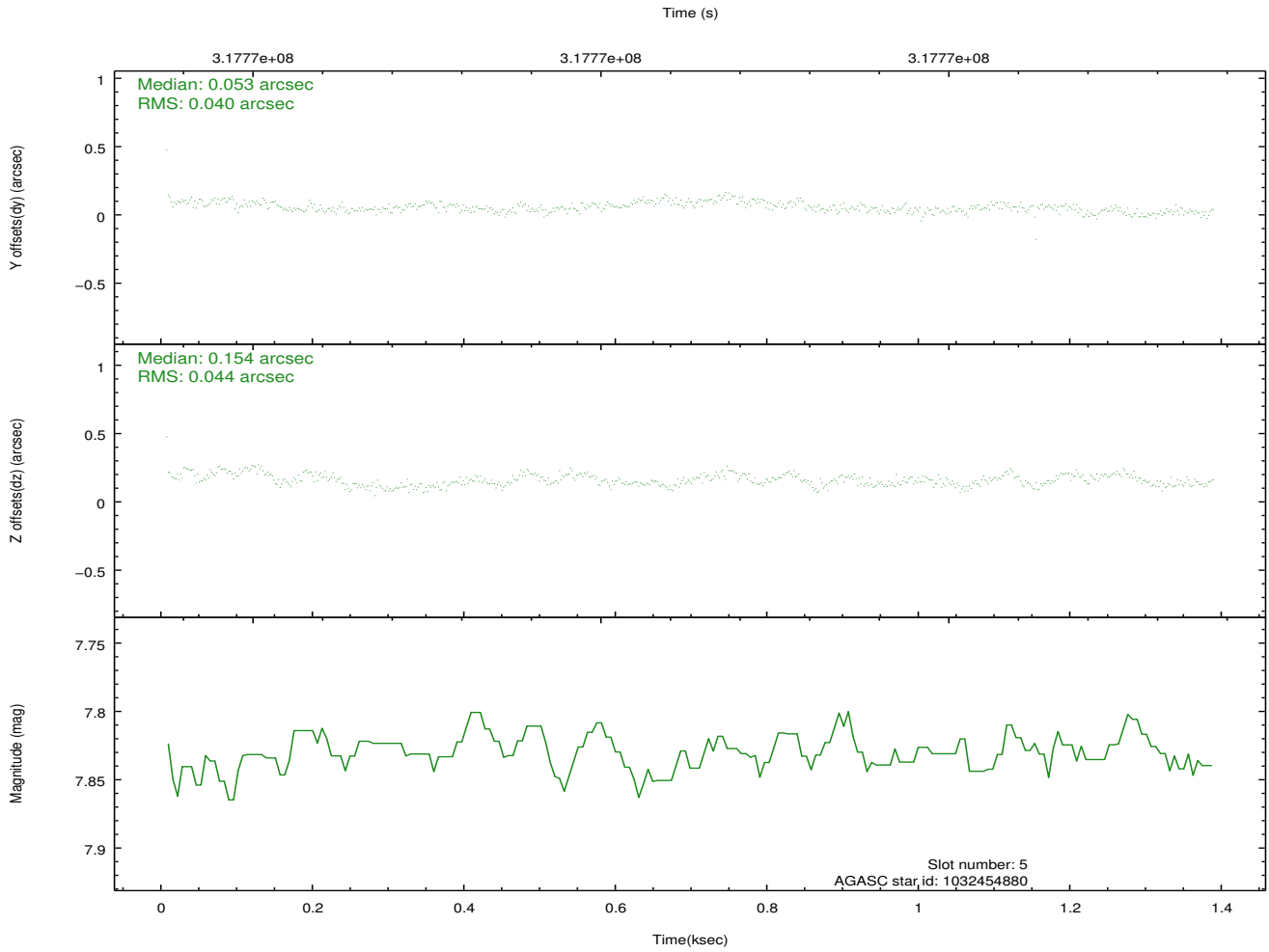
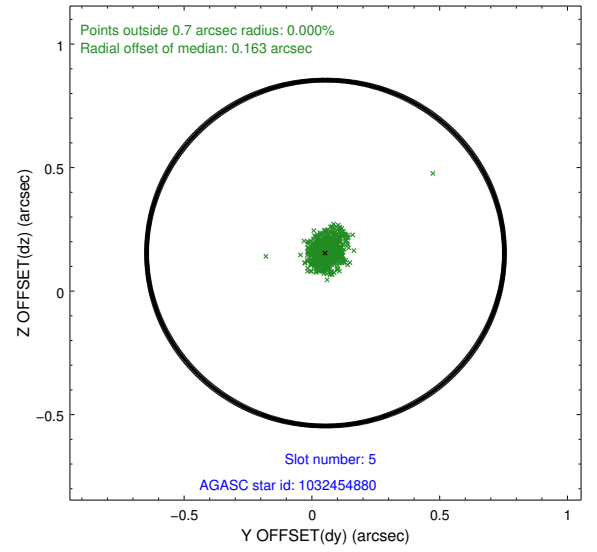
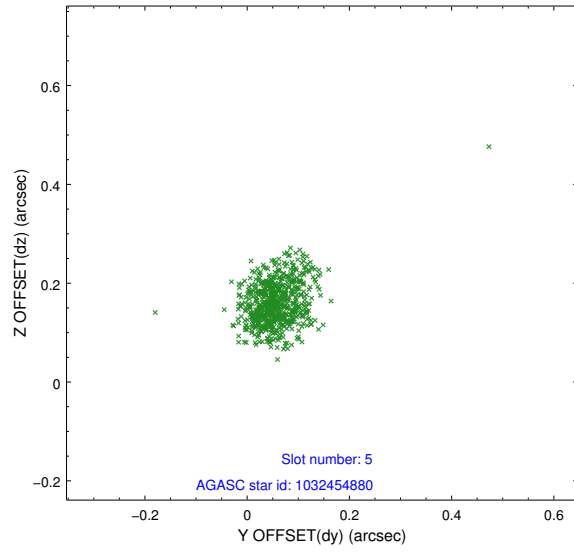
## 2.4.2 Slot 4



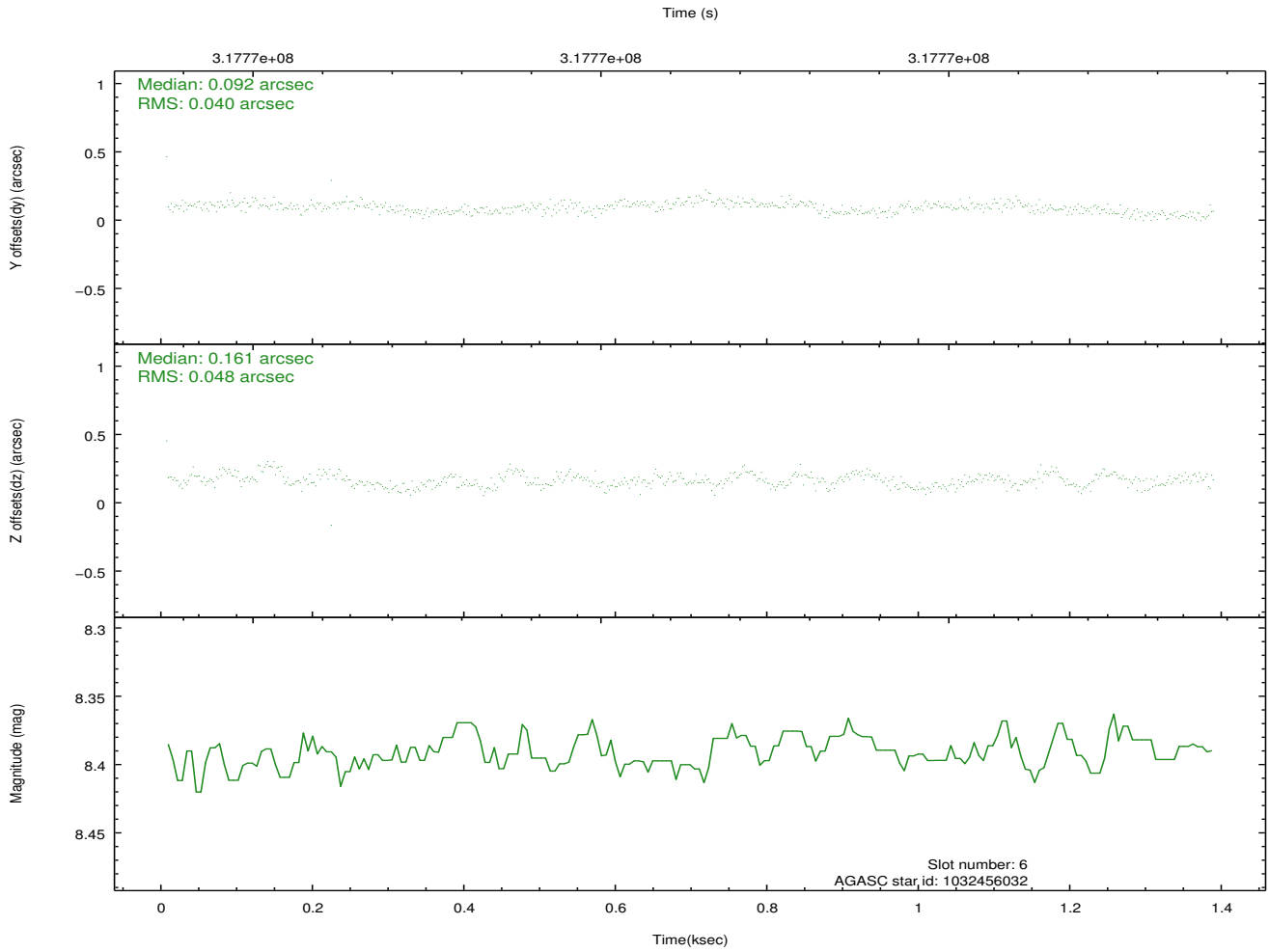
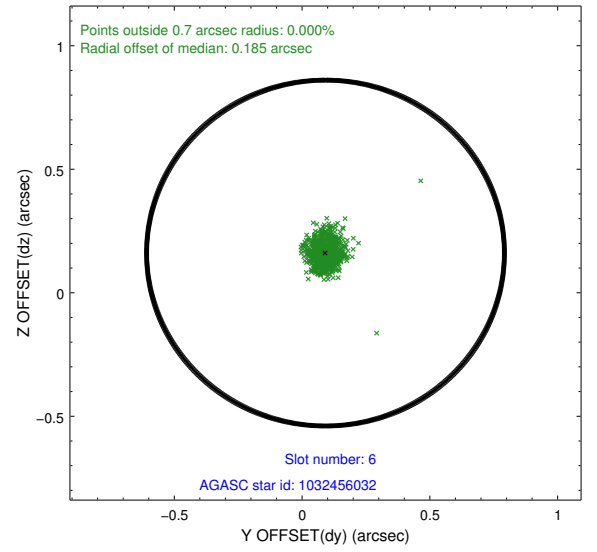
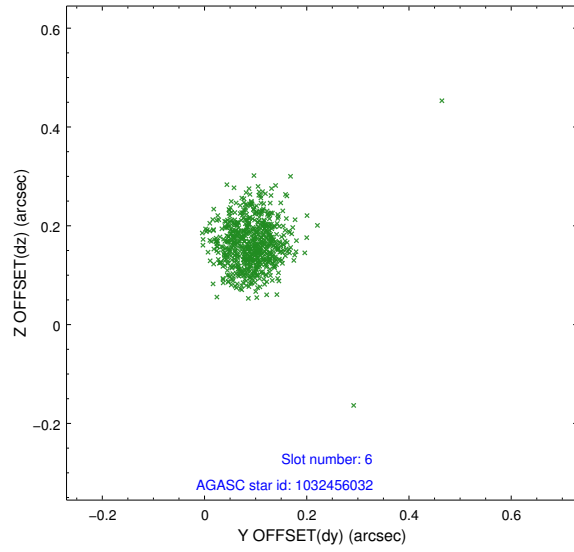
Time (s)



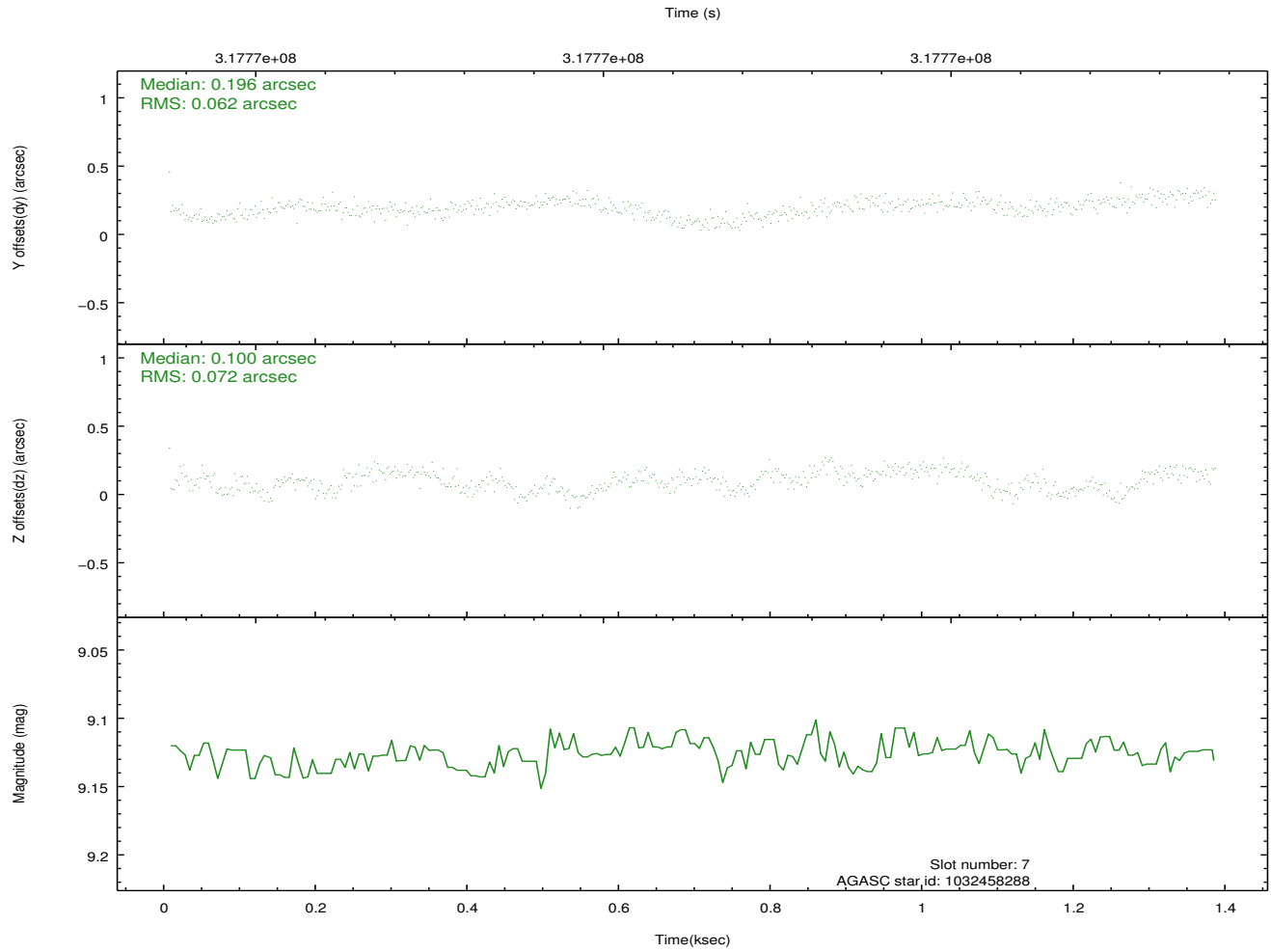
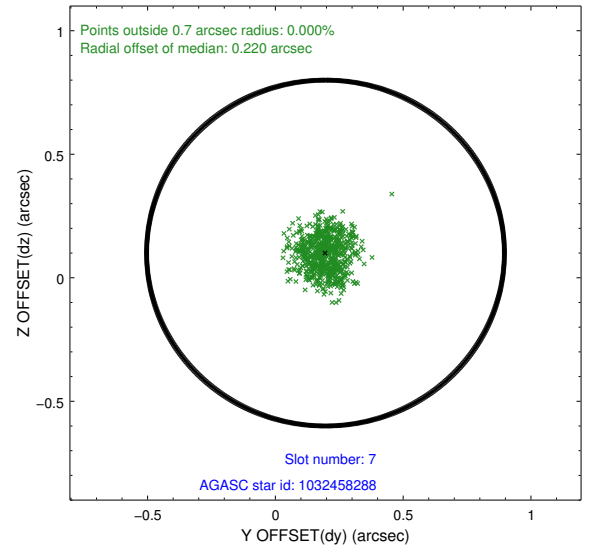
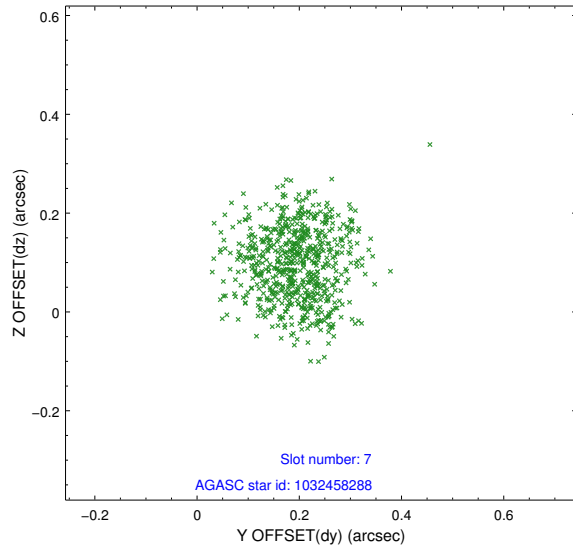
### 2.4.3 Slot 5



## 2.4.4 Slot 6

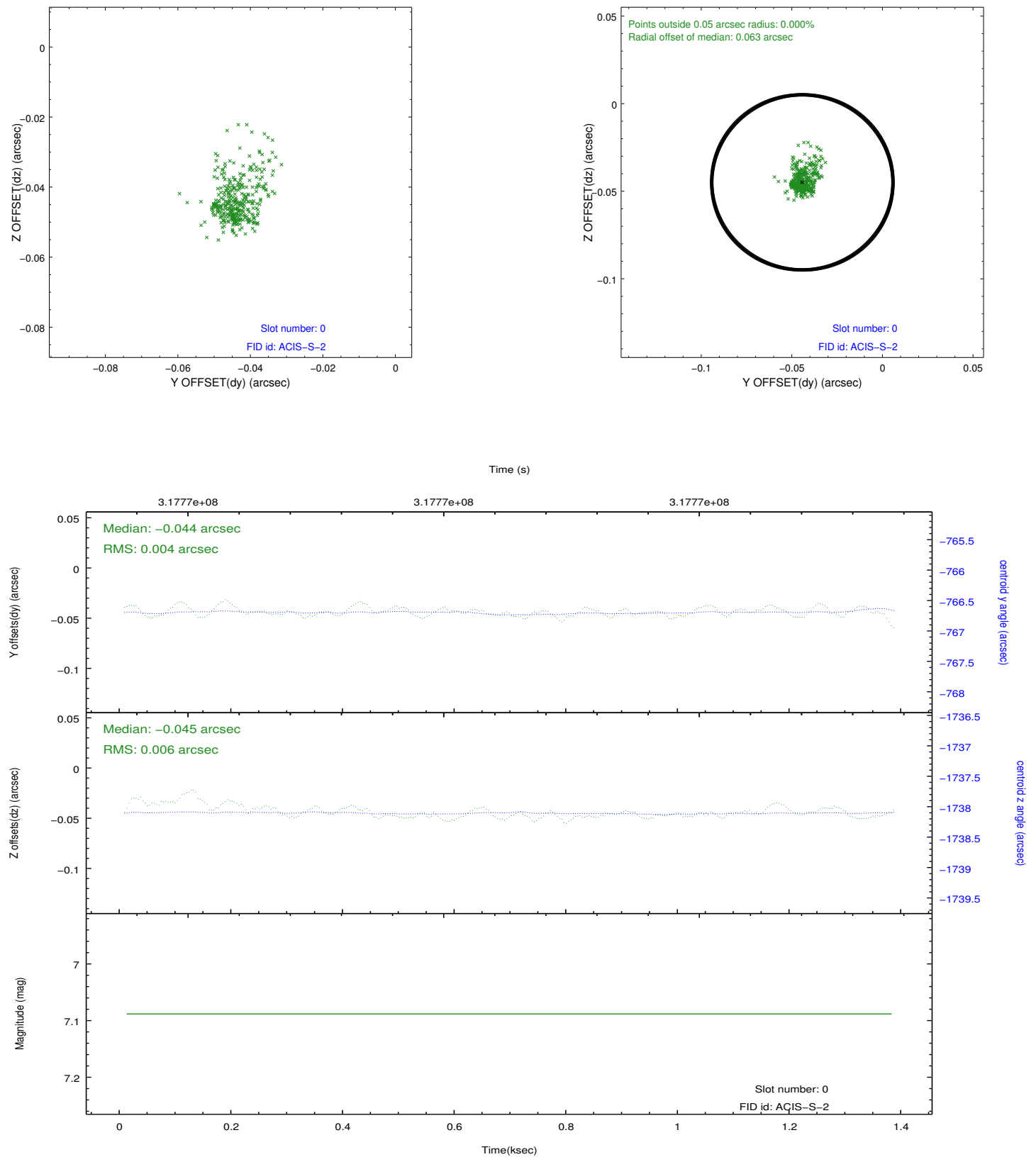


## 2.4.5 Slot 7

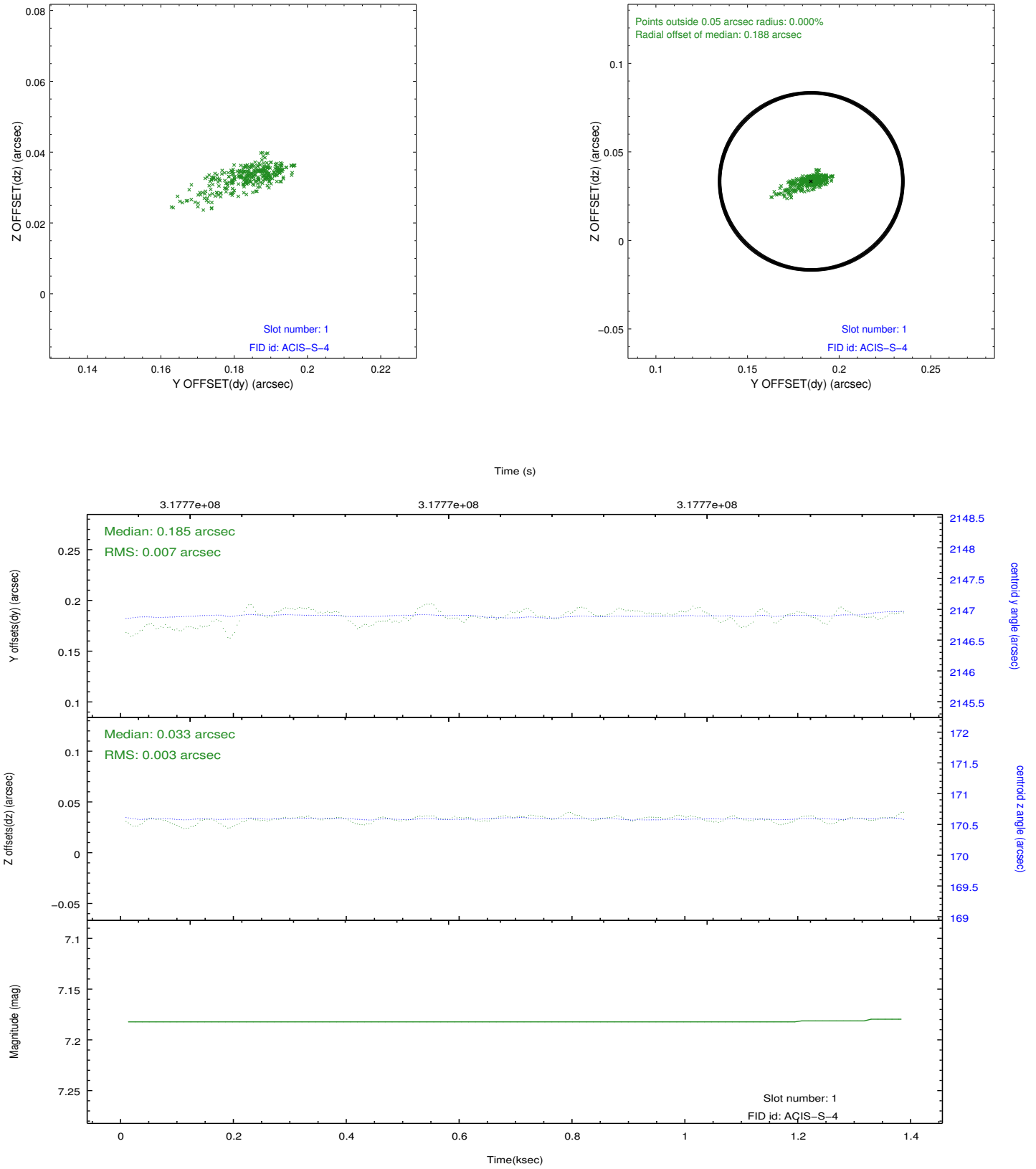


## 2.5 FID Slots

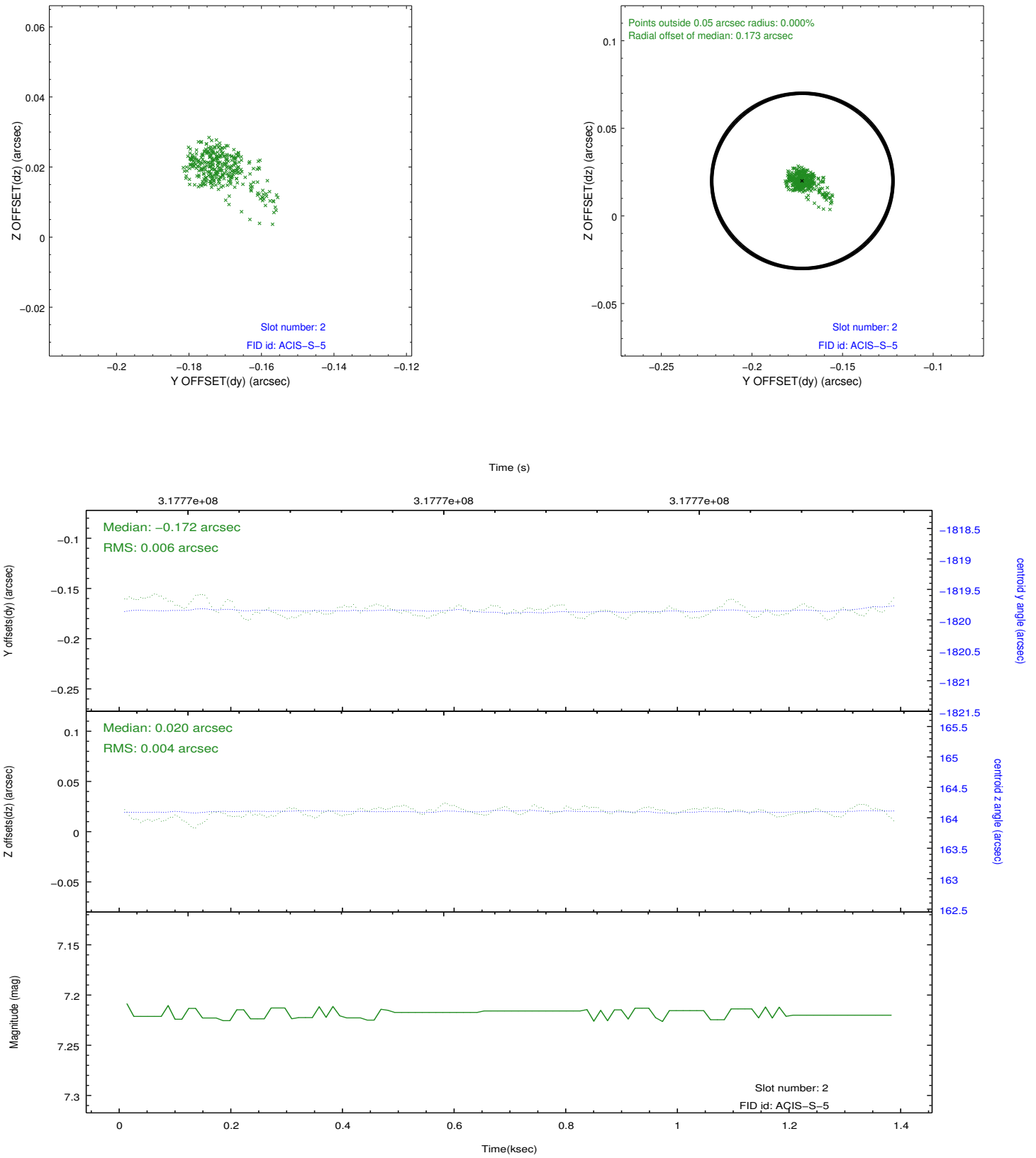
### 2.5.1 Slot 0



## 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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.29919999

### A.2 Comments