

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11357 - L2 Version 2  
Chandra X-Ray Center

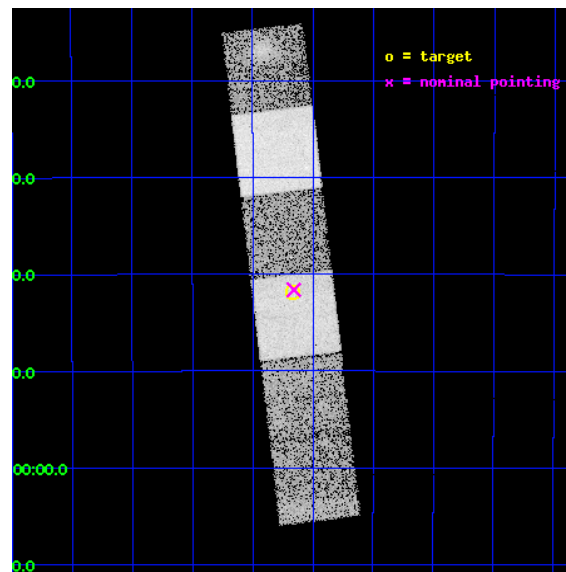
L2 Processing Date : Jun 29 2012

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# 1 Front

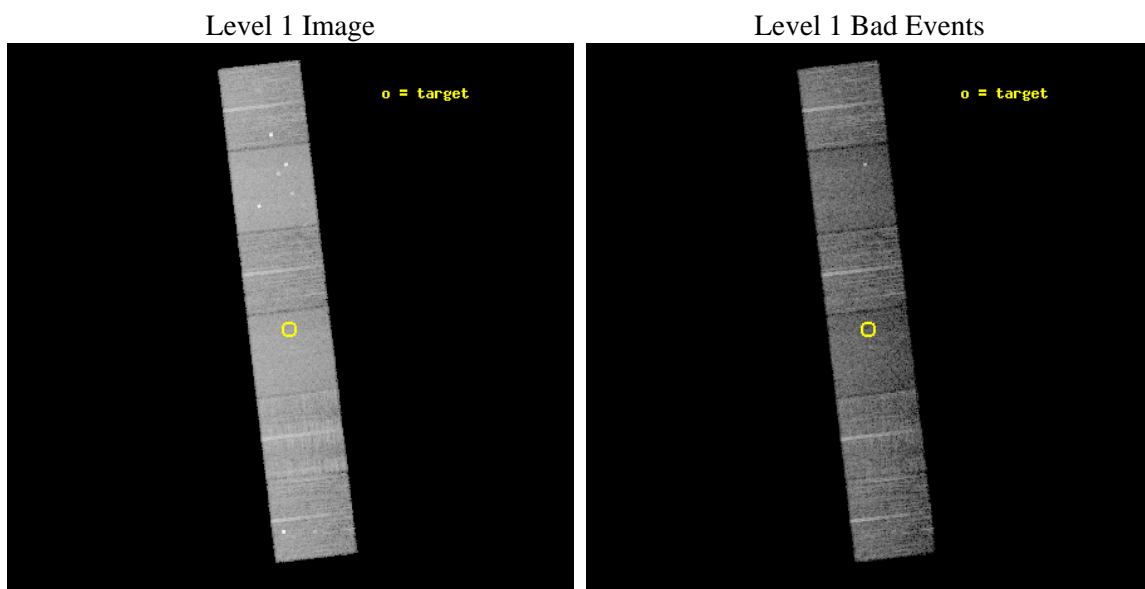
seq_num	600876	Sequence number
obs_id	11357	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	6dFJ2049400-324154	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	312.417	Observer's specified target RA [deg]
dec_targ	-32.69806	Observer's specified target Dec [deg]
ra_nom	312.41455776917	Nominal RA [deg]
dec_nom	-32.693652078463	Nominal Dec [deg]
roll_nom	83.209174328321	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9046.3999663591	Sum of GTIs [s]
liveltime	8931.849002897	Livetime [s]
ontime4	9046.3999663591	Sum of GTIs [s]
ontime5	9046.3999663591	Sum of GTIs [s]
ontime6	9046.3999663591	Sum of GTIs [s]
ontime7	9046.3999663591	Sum of GTIs [s]
ontime8	9046.3999663591	Sum of GTIs [s]
ontime9	9043.1589461565	Sum of GTIs [s]
l2events	110163	Number of level 2 events



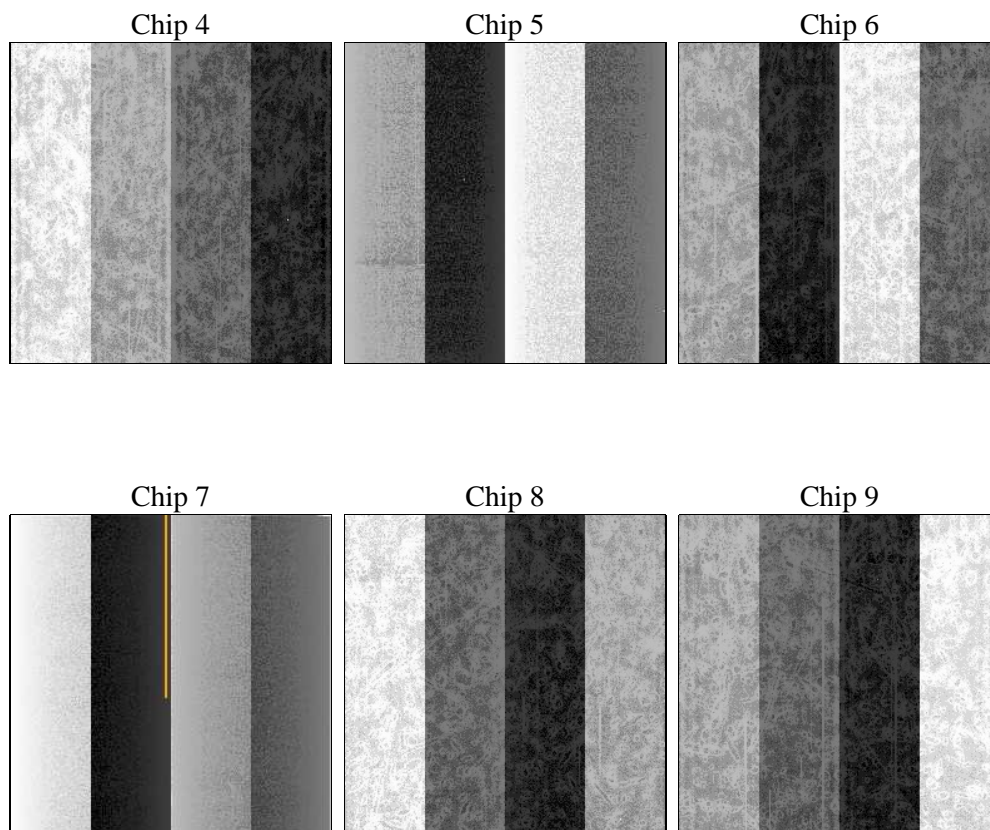
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9046.3999663591	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime4	9046.3999663591	Sum of GTIs [s]
date	2012-06-29T09:24:17	Date and time of file creation	ontime5	9046.3999663591	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9046.3999663591	Sum of GTIs [s]
			ontime7	9046.3999663591	Sum of GTIs [s]
			ontime8	9046.3999663591	Sum of GTIs [s]
			ontime9	9043.1589461565	Sum of GTIs [s]
			l1events	490043	Number of level 1 events

### 2.1.4 Events

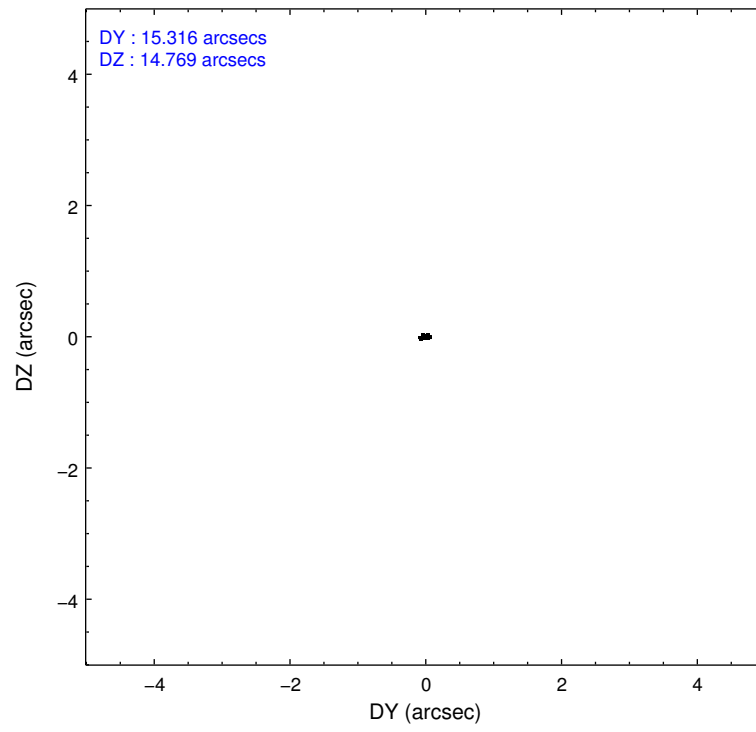
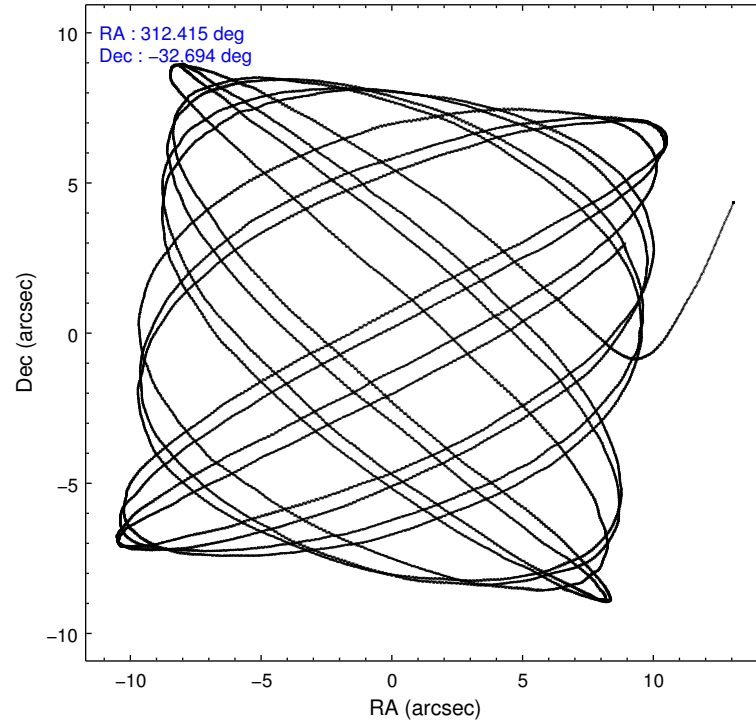
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	81831	103233	67327	81880	86428	69344	grade 0 events	6108	6026	2609	3320	6717	5685
rejected events	70654	51234	59935	45513	63431	58748		7%	5%	3%	4%	7%	8%
rejected %	86%	49%	89%	55%	73%	84%	grade 1 events	93	167	39	97	73	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	1965	15551	1649	7375	5406	1697
								2%	15%	2%	9%	6%	2%
							grade 3 events	911	2050	781	3317	2439	795
								1%	1%	1%	4%	2%	1%
							grade 4 events	846	1865	758	3168	2223	770
								1%	1%	1%	3%	2%	1%
							grade 5 events	2931	7920	3065	8401	4532	3408
								3%	7%	4%	10%	5%	4%
							grade 6 events	1351	26526	1598	19211	6215	1652
								1%	25%	2%	23%	7%	2%
							grade 7 events	67626	43128	56828	36991	58823	55256
								82%	41%	84%	45%	68%	79%

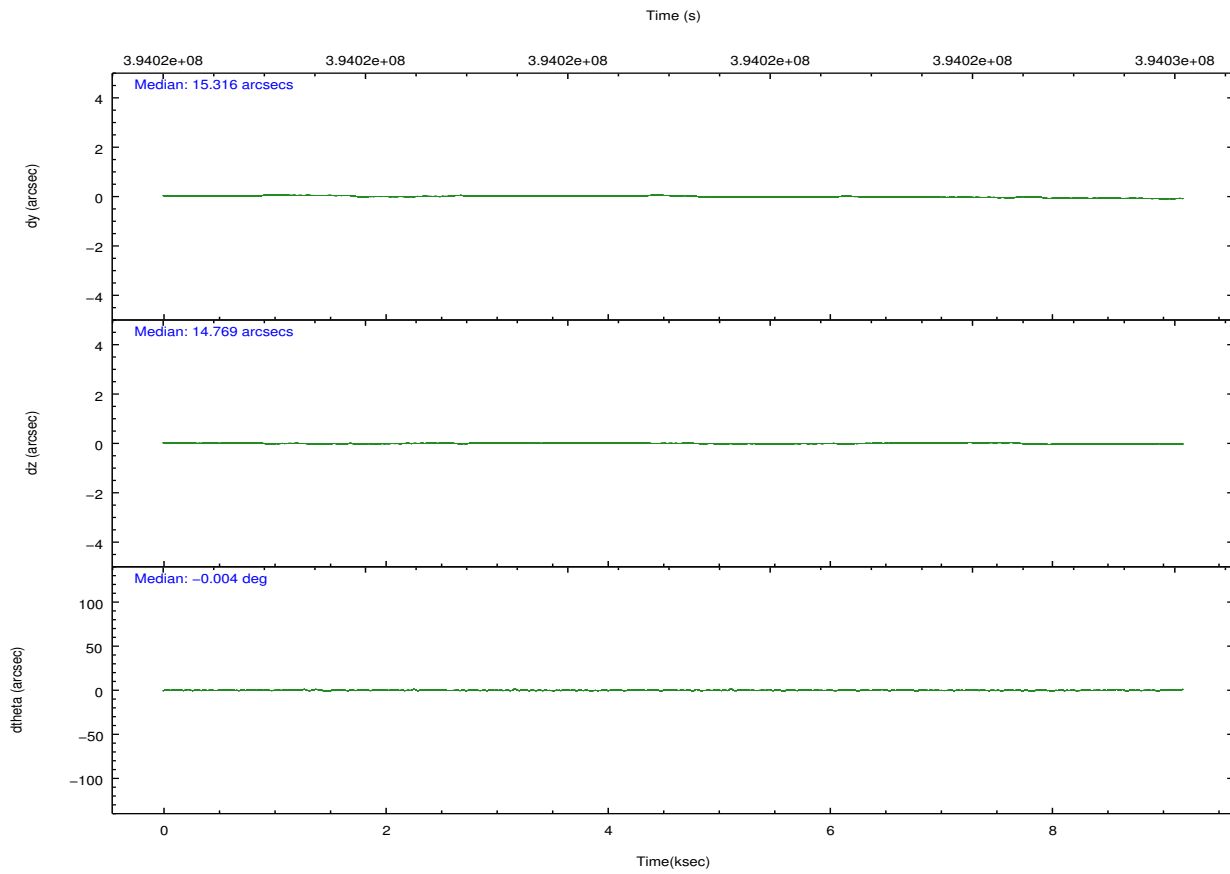
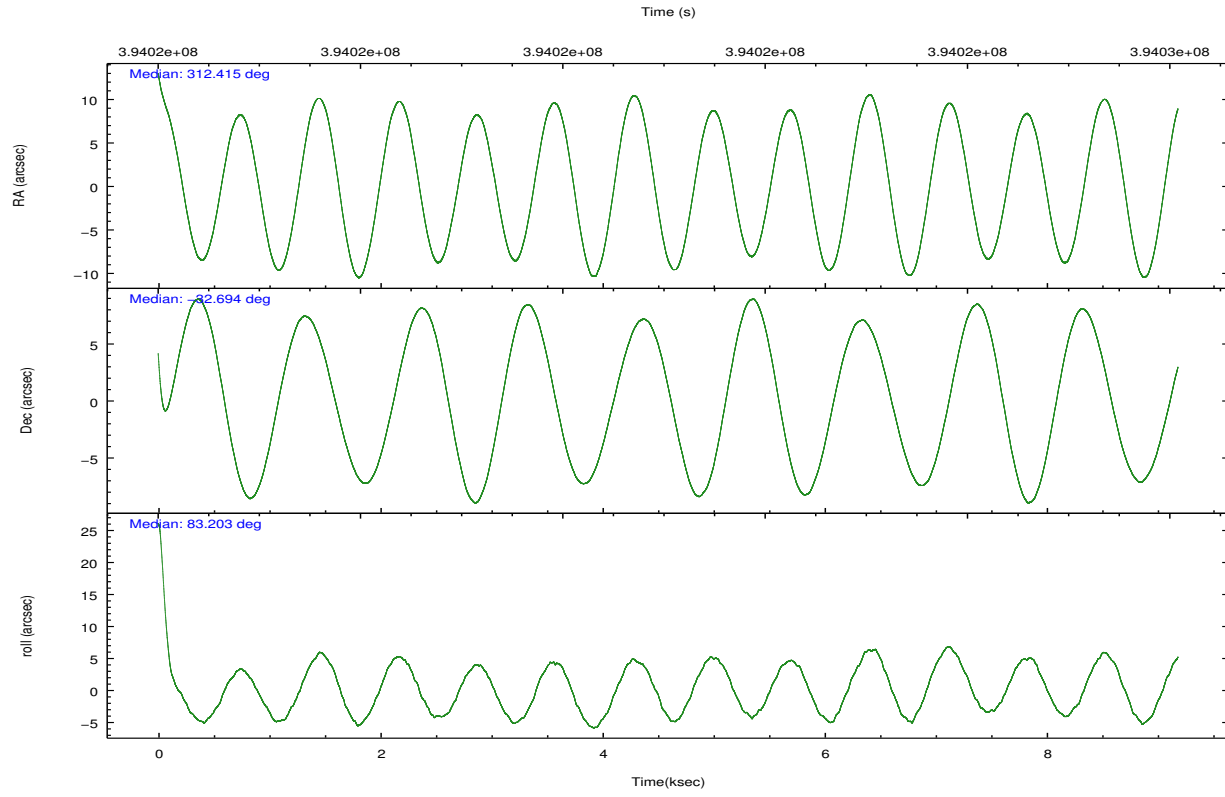


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	312.427789	312.4145577691737	CCD I2 on	N	N
[deg] Pointing Dec	-32.718641	-32.69365207846309	CCD I3 on	N	N
[deg] Pointing Roll	83.059671	83.20917432832078	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	394016623.184000	394015380.47755	CCD S5 on	O2	Y
Observation start date	2010-06-27T09:02:37	2010-06-27T08:43:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	394025623.184000	394026310.0531	On-chip summing requested	N	N
Observation end date	2010-06-27T11:32:37	2010-06-27T11:45:10	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



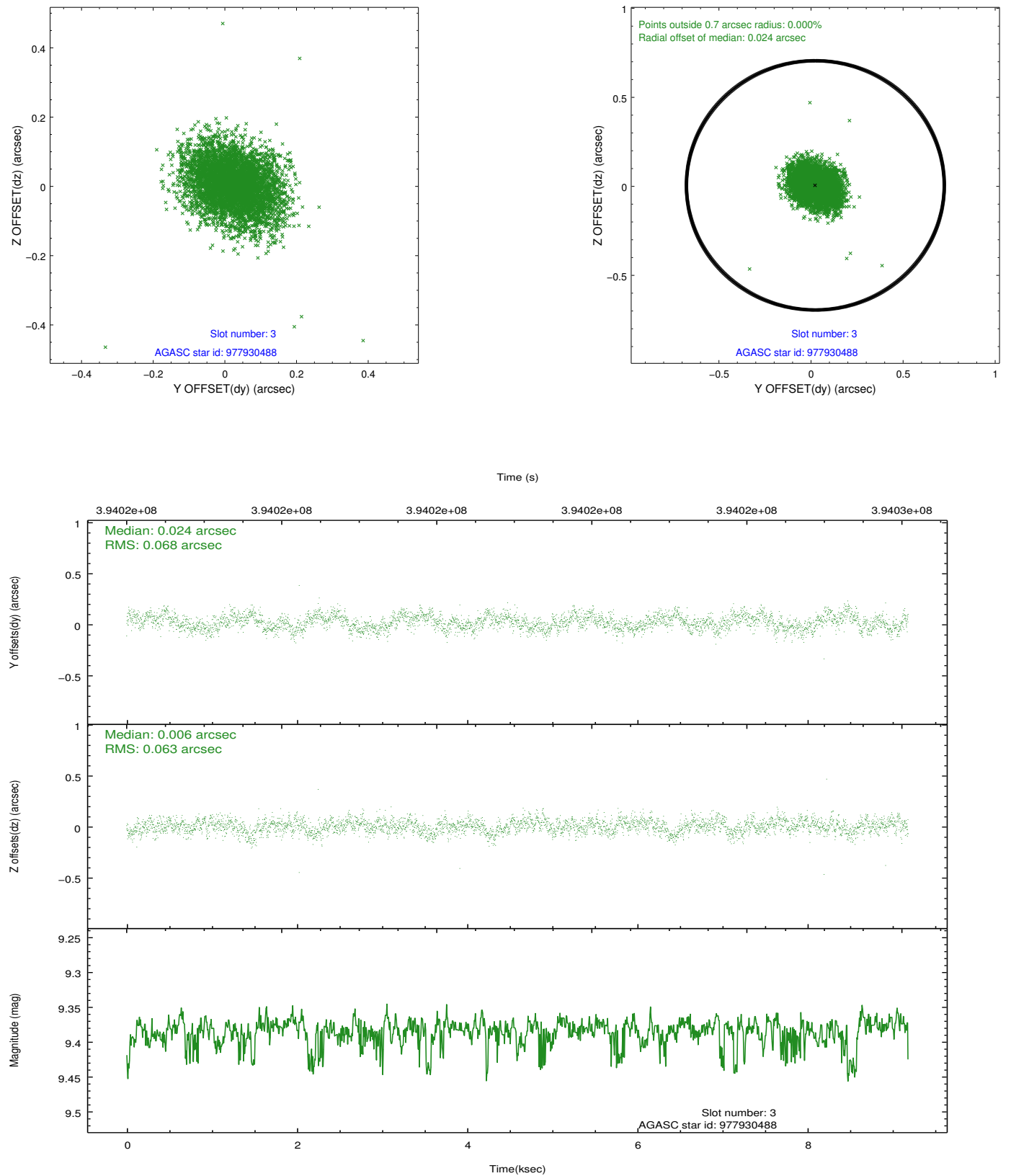


### Slot Statistics

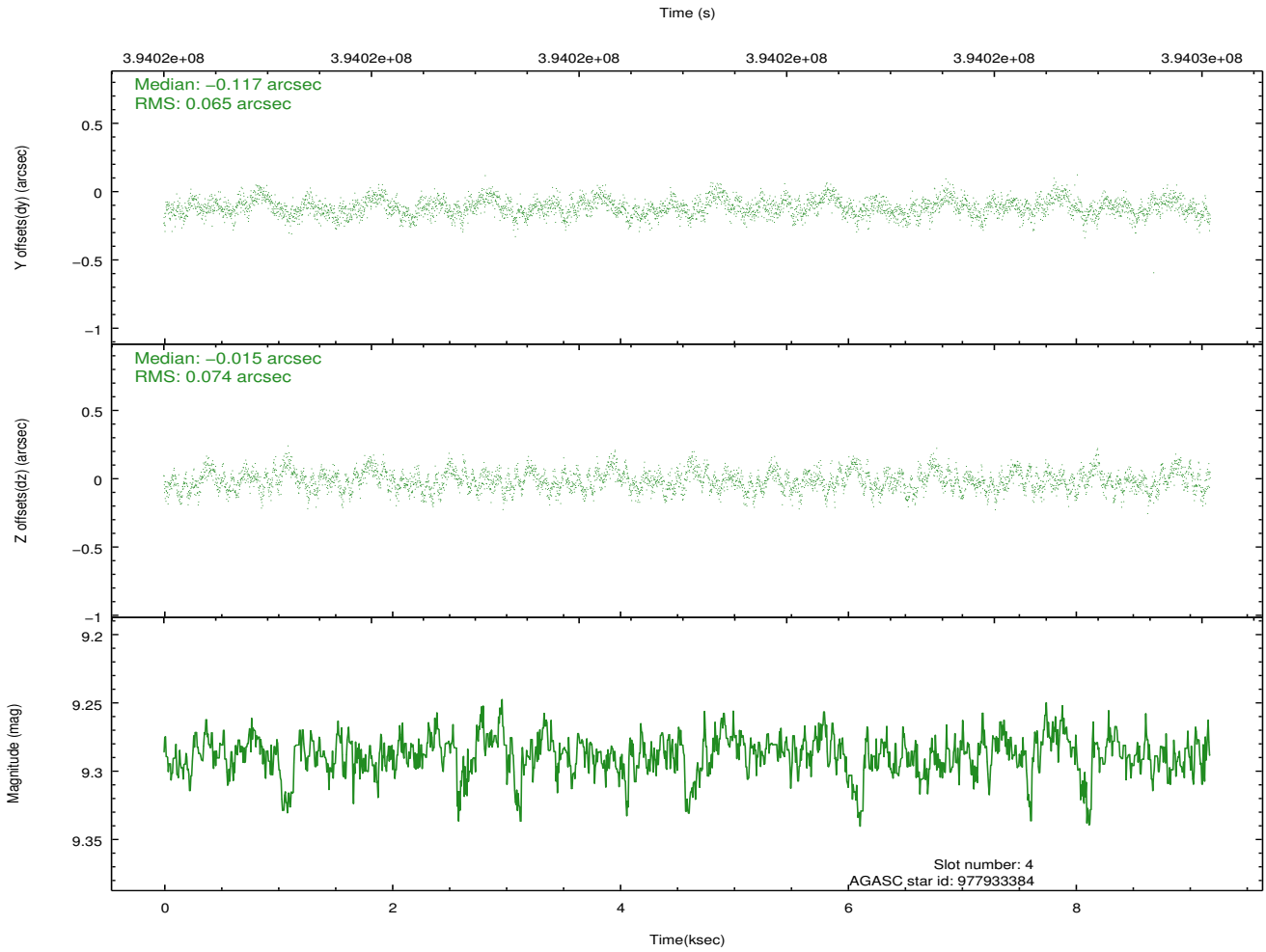
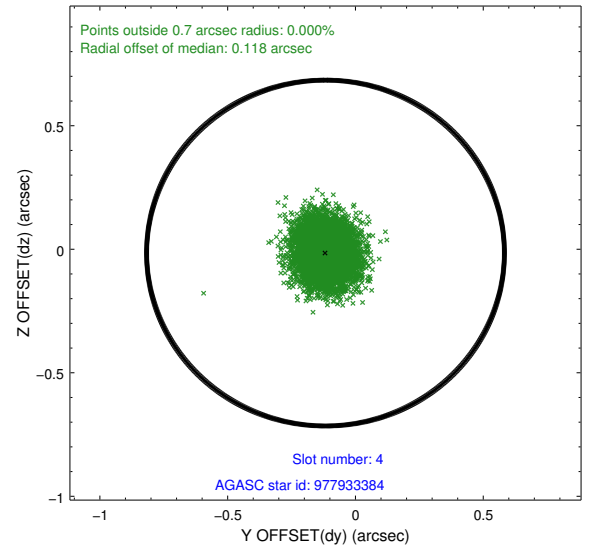
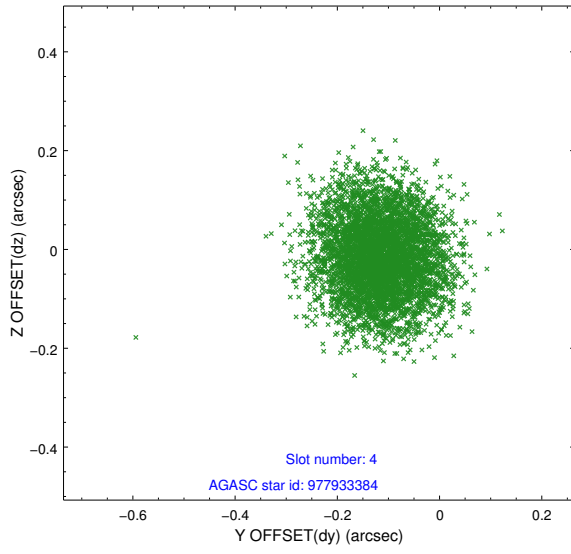
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	2240	-0.101	-0.036	0.006	0.011	0.000000	0.000000	-768.38	-1736.13
1	FID	ACIS-S-4	7.00	2240	0.213	0.058	0.006	0.010	0.000000	0.000000	2144.93	171.85
2	FID	ACIS-S-5	7.03	2240	-0.142	-0.014	0.006	0.010	0.000000	0.000000	-1820.52	166.10
3	GUIDE	977930488	9.38	4478	0.024	0.006	0.098	0.159	312.076170	-32.432128	892.96	1185.35
4	GUIDE	977933384	9.29	4475	-0.117	-0.015	0.106	0.167	311.943152	-32.559926	386.26	1528.77
5	GUIDE	977937456	7.95	4474	-0.060	-0.046	0.059	0.094	312.194162	-33.123600	-1532.94	523.27
6	GUIDE	978060760	9.35	4474	0.041	-0.207	0.118	0.242	312.956910	-32.611979	571.10	-1546.75
7	GUIDE	978071192	6.51	4480	0.105	0.274	0.077	0.114	312.994842	-33.177974	-1439.09	-1896.63

## 2.4 Star Slots

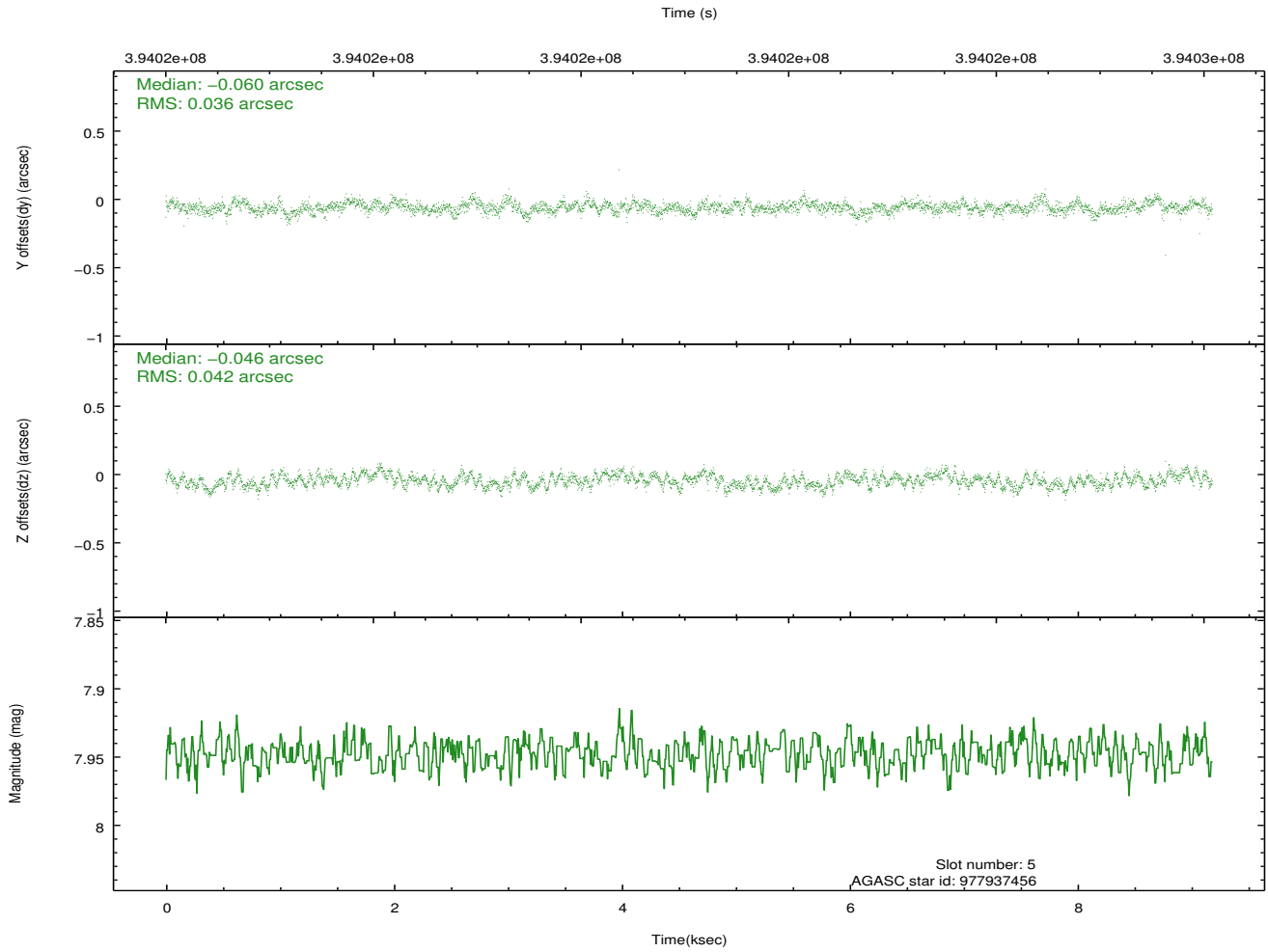
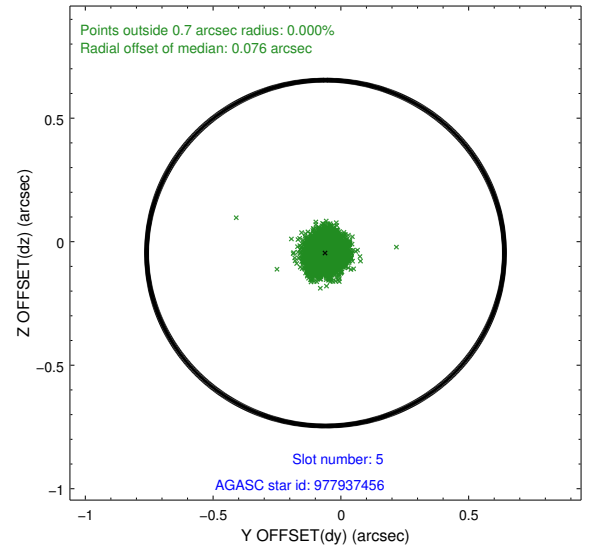
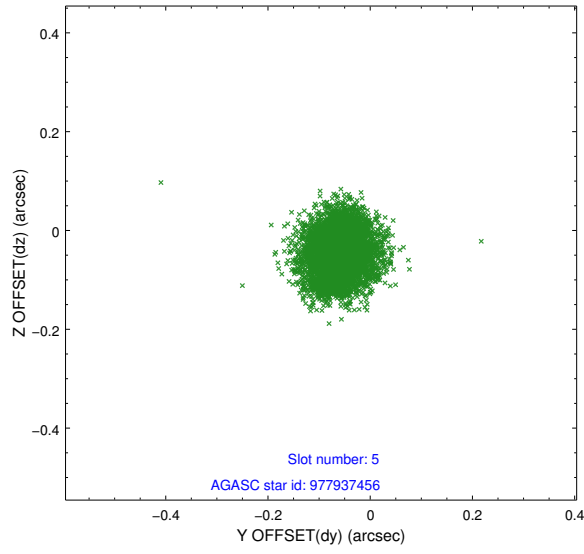
### 2.4.1 Slot 3



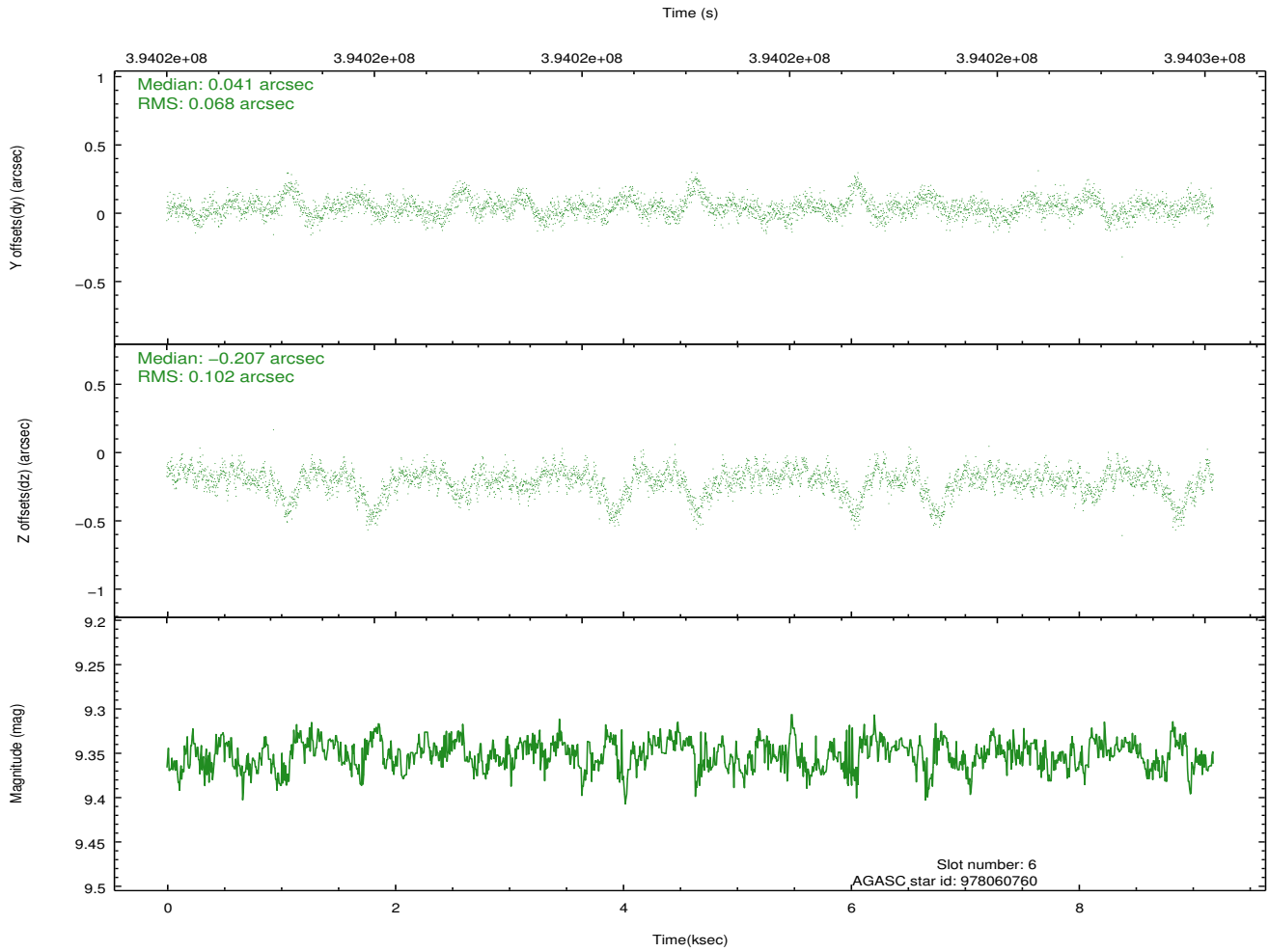
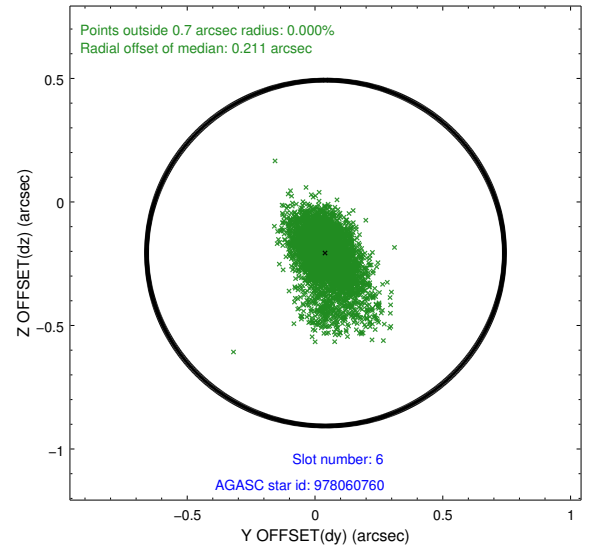
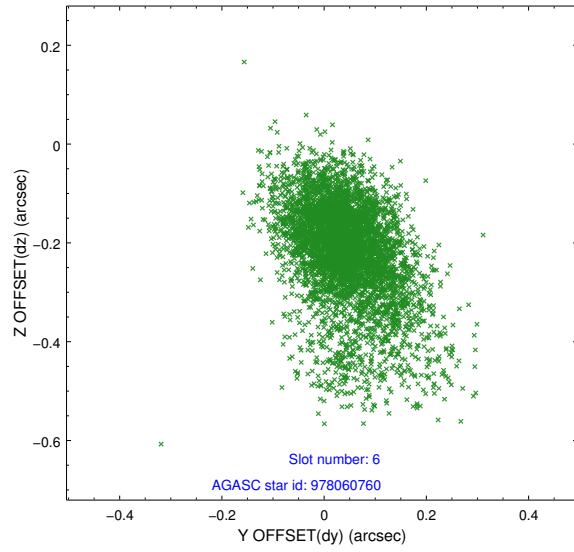
## 2.4.2 Slot 4



### 2.4.3 Slot 5

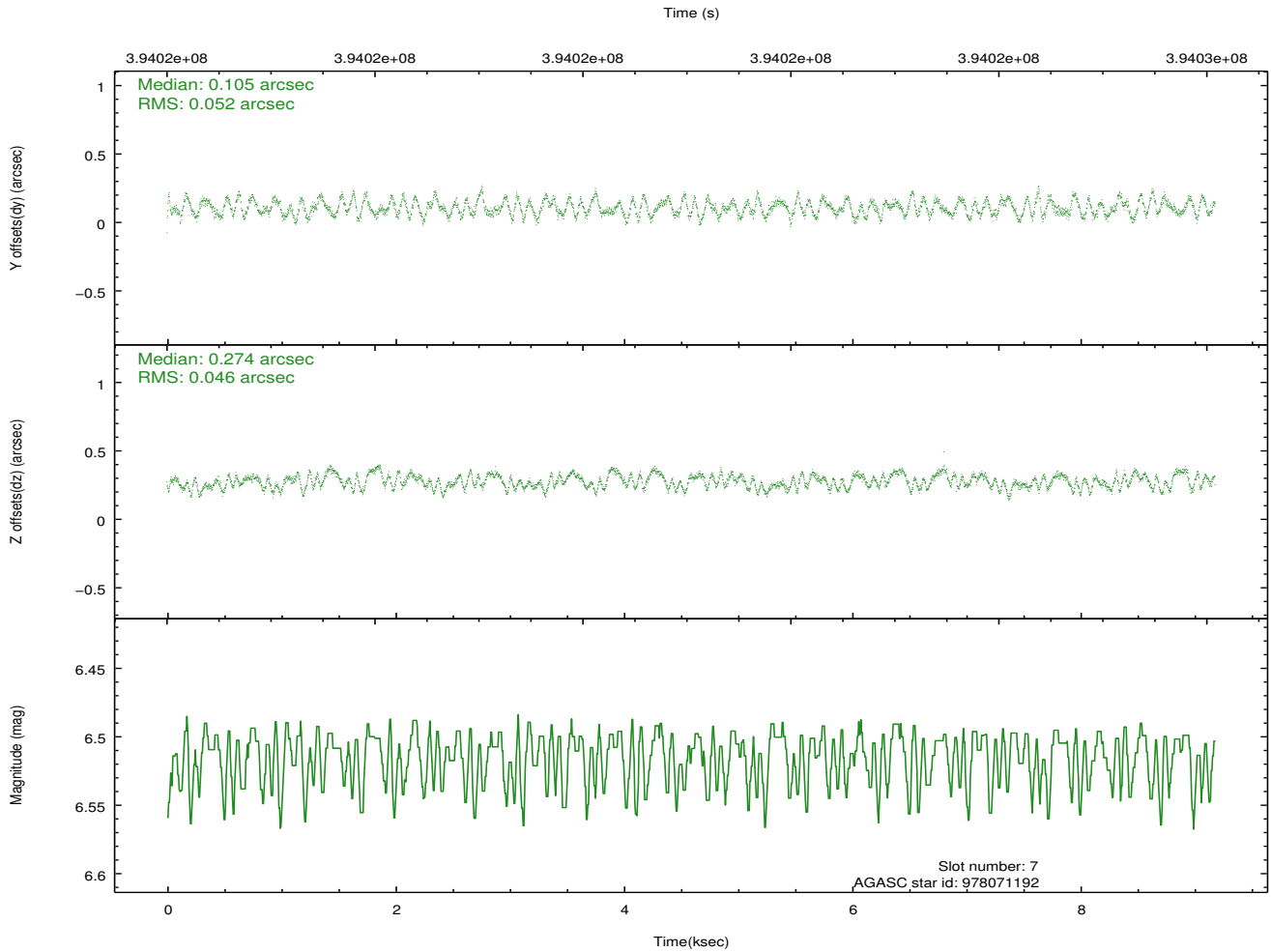
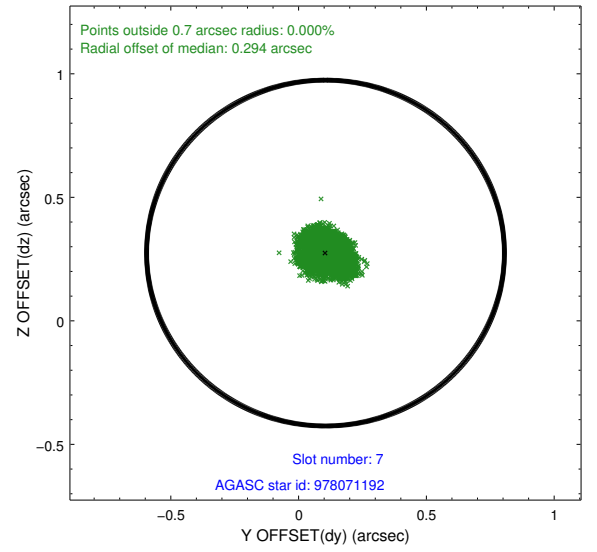
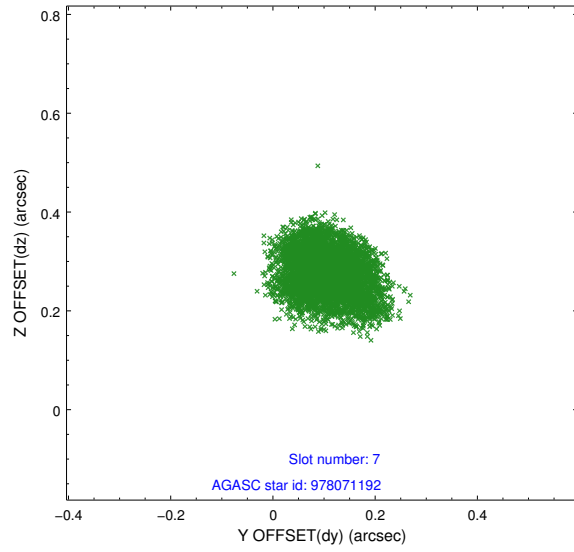


## 2.4.4 Slot 6



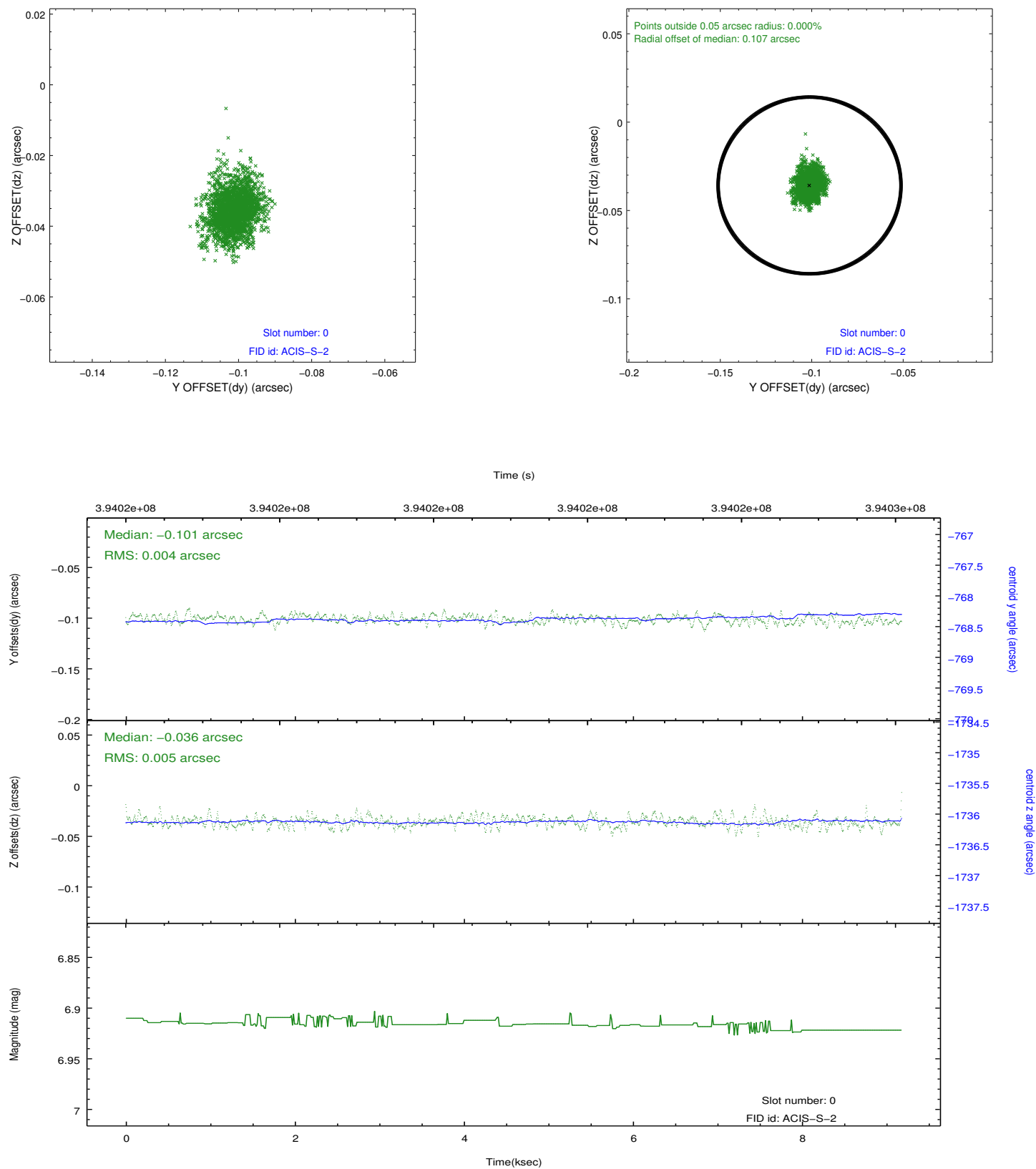


## 2.4.5 Slot 7

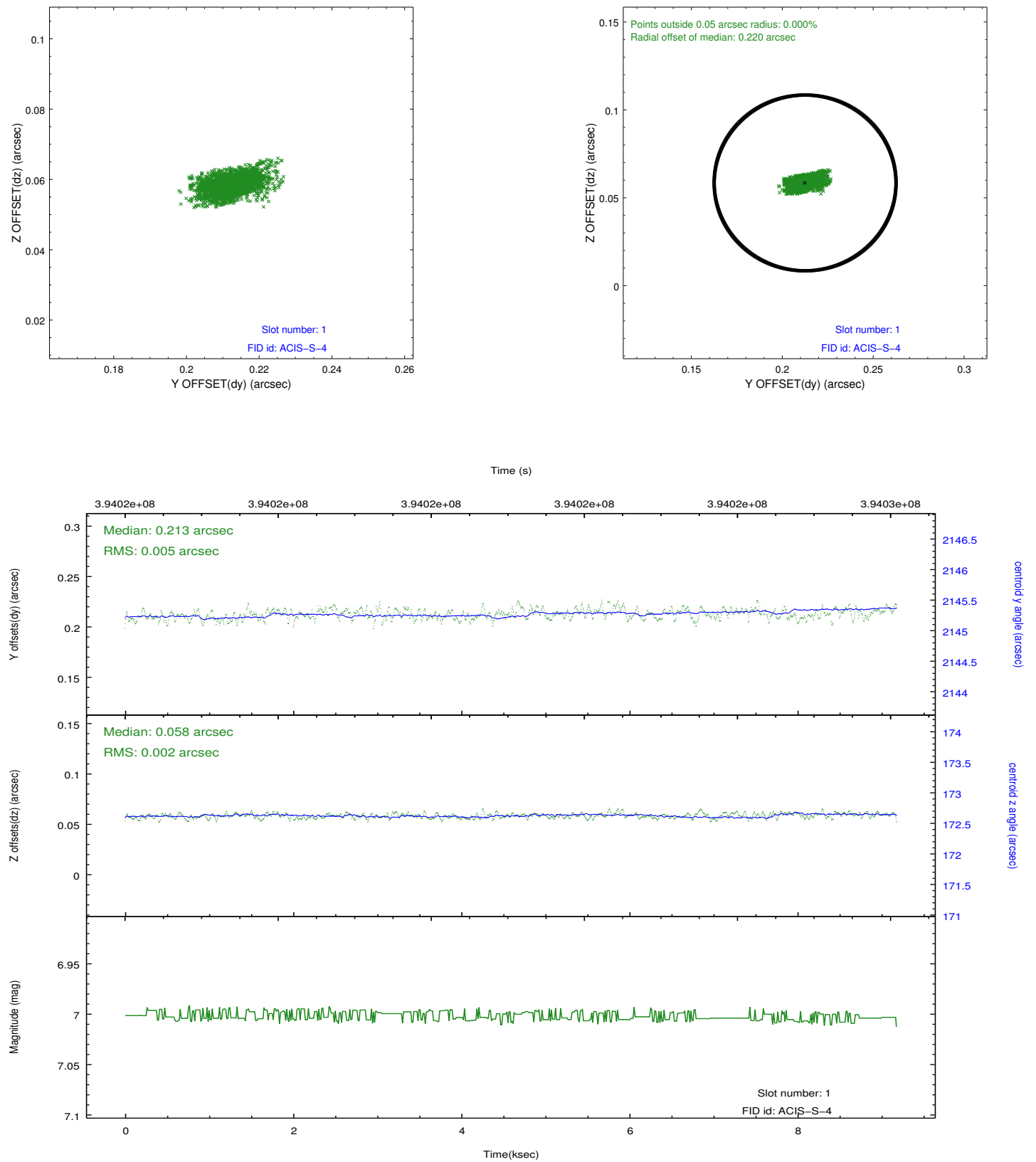


## 2.5 FID Slots

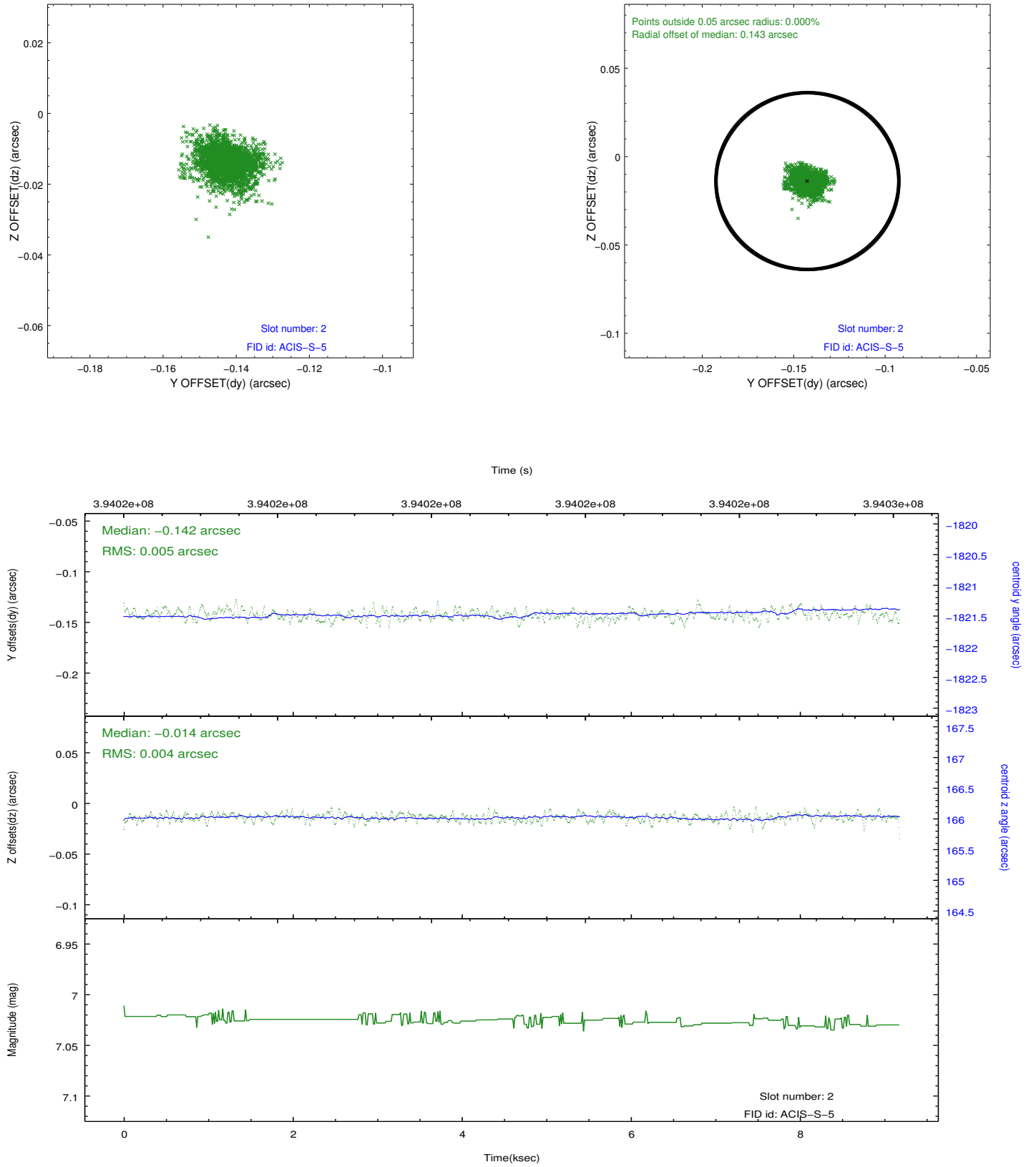
### 2.5.1 Slot 0



## 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)	2012.07.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0463999663591

### A.2 Comments