

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2256 - L2 Version 3  
Chandra X-Ray Center

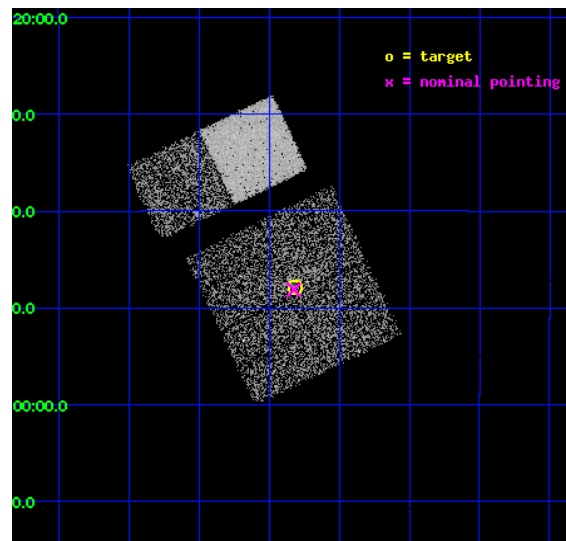
L2 Processing Date : Sep 4 2012

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# 1 Front

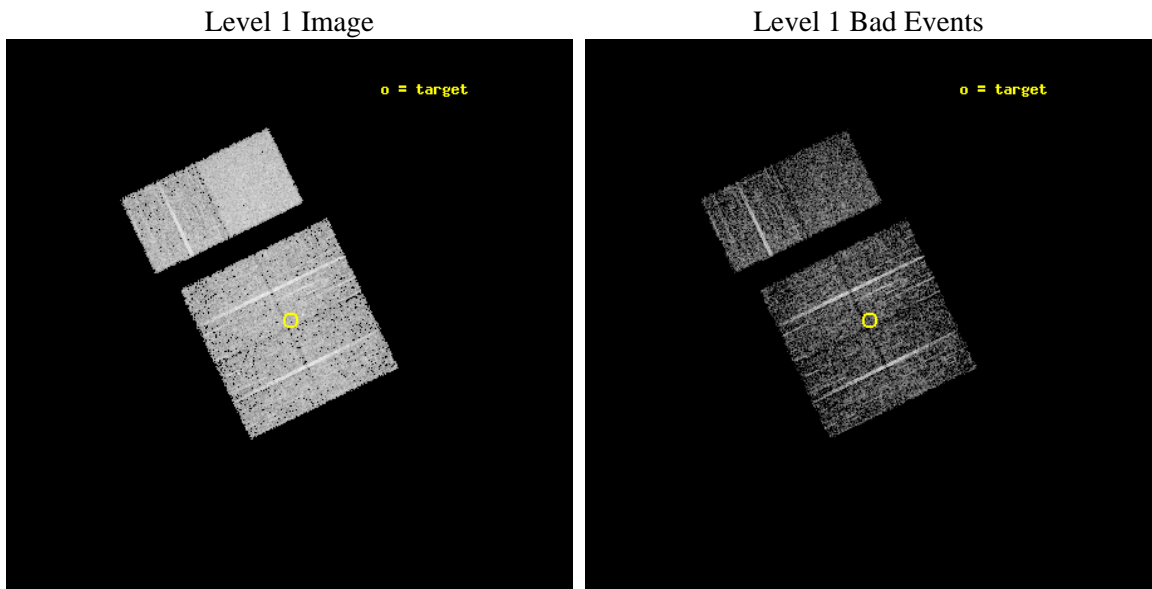
seq_num	900083	Sequence number
obs_id	2256	Observation id
title	CHANDRA OBSERVATION OF HARD X-RAY SOURCES DISCOVERED WITH ASCA	Pro
observer	Dr Yoshihiro Ueda	Principal investigator
object	AGX~J035048-1147	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	57.7025	Observer's specified target RA [deg]
dec_targ	-11.798806	Observer's specified target Dec [deg]
ra_nom	57.705884018724	Nominal RA [deg]
dec_nom	-11.802433121333	Nominal Dec [deg]
roll_nom	334.39575303503	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4054.4000037611	Sum of GTIs [s]
livetime	4003.0607496468	Livetime [s]
ontime0	4054.4000037611	Sum of GTIs [s]
ontime1	4054.4000037611	Sum of GTIs [s]
ontime2	4054.4000037611	Sum of GTIs [s]
ontime3	4054.4000037611	Sum of GTIs [s]
ontime6	4054.4000037611	Sum of GTIs [s]
ontime7	4054.4000037611	Sum of GTIs [s]
l2events	29442	Number of level 2 events



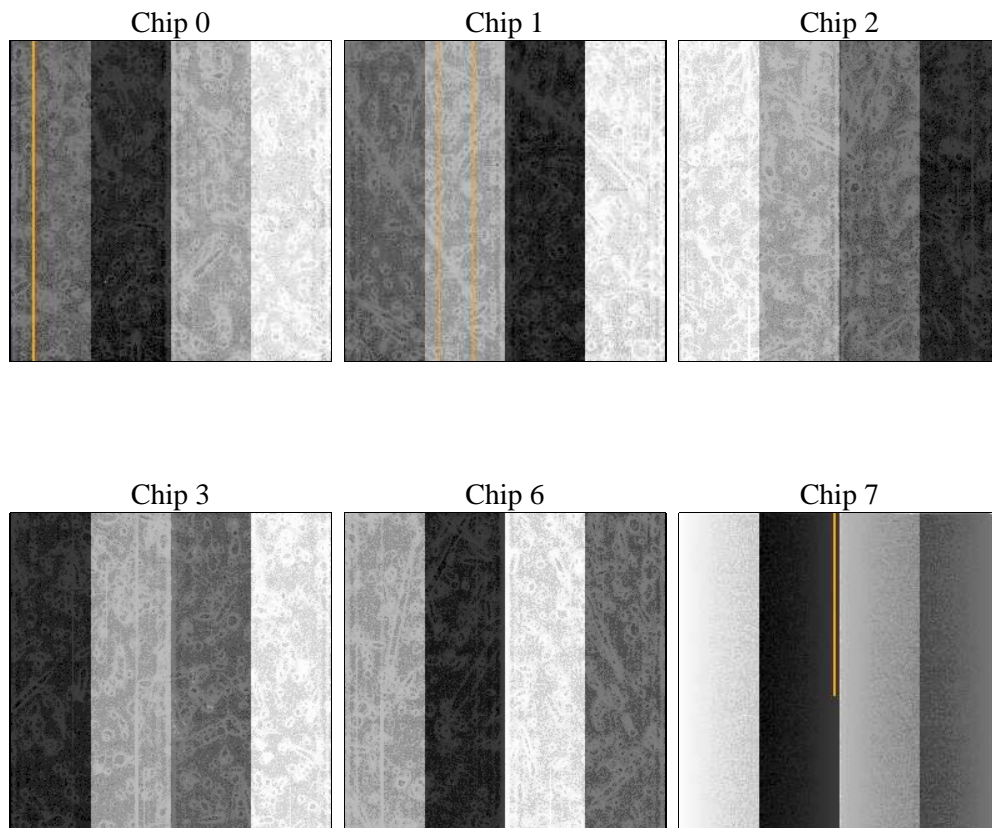
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4054.4000037611	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	4054.4000037611	Sum of GTIs [s]
date	2012-09-04T04:30:28	Date and time of file creation	ontime1	4054.4000037611	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4054.4000037611	Sum of GTIs [s]
			ontime3	4054.4000037611	Sum of GTIs [s]
			ontime6	4054.4000037611	Sum of GTIs [s]
			ontime7	4054.4000037611	Sum of GTIs [s]
			l1events	147107	Number of level 1 events

### 2.1.4 Events

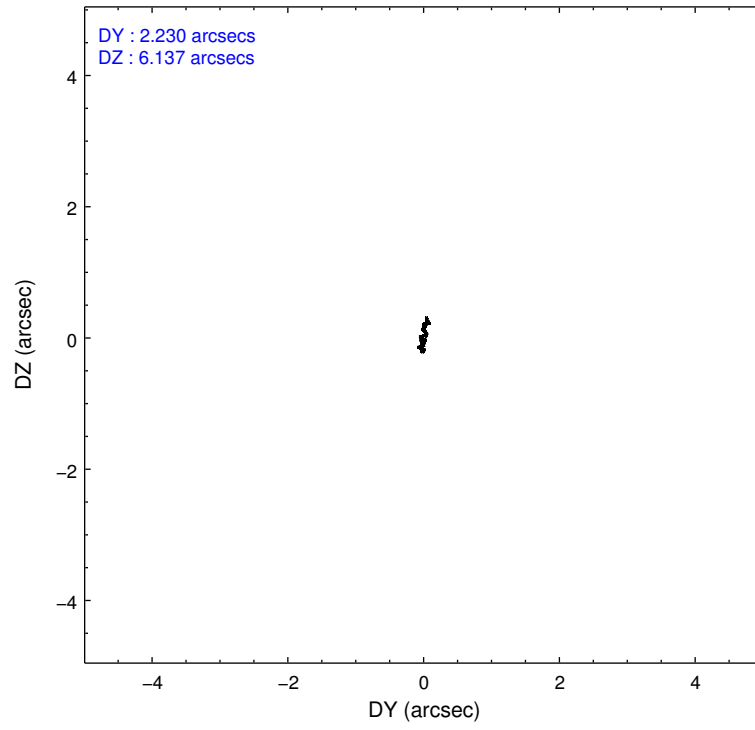
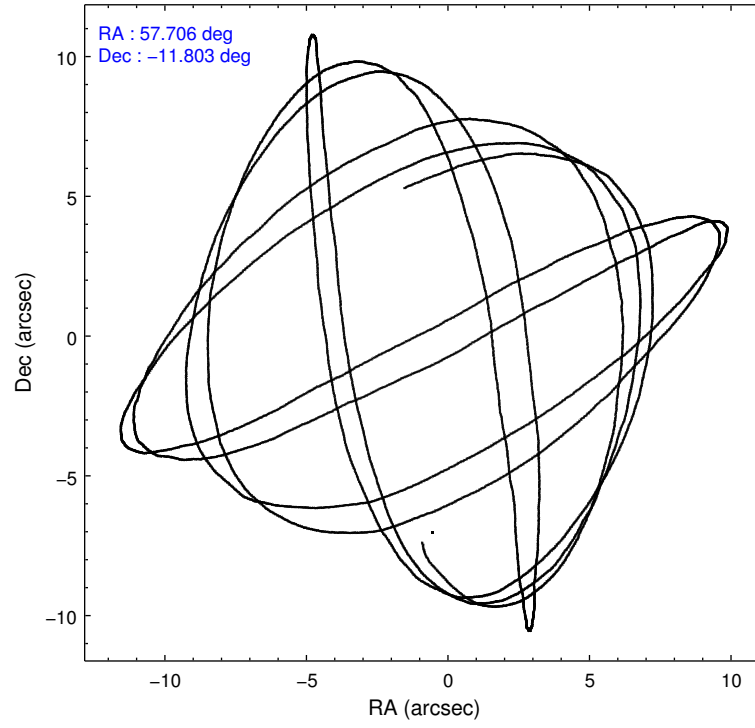
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	20410	20803	23058	24216	23922	34698	grade 0 events	1391	1281	1263	1309	1388	2038
rejected events	17485	17802	20277	21433	20798	17507		6%	6%	5%	5%	5%	5%
rejected %	85%	85%	87%	88%	86%	50%	grade 1 events	8	9	15	14	13	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	584	610	542	505	629	3468
								2%	2%	2%	2%	2%	9%
							grade 3 events	273	267	248	247	278	1573
								1%	1%	1%	1%	1%	4%
							grade 4 events	240	293	252	250	279	1565
								1%	1%	1%	1%	1%	4%
							grade 5 events	789	876	781	927	993	2898
								3%	4%	3%	3%	4%	8%
							grade 6 events	445	555	480	475	553	8572
								2%	2%	2%	1%	2%	24%
							grade 7 events	16680	16912	19477	20489	19789	14561
								81%	81%	84%	84%	82%	41%

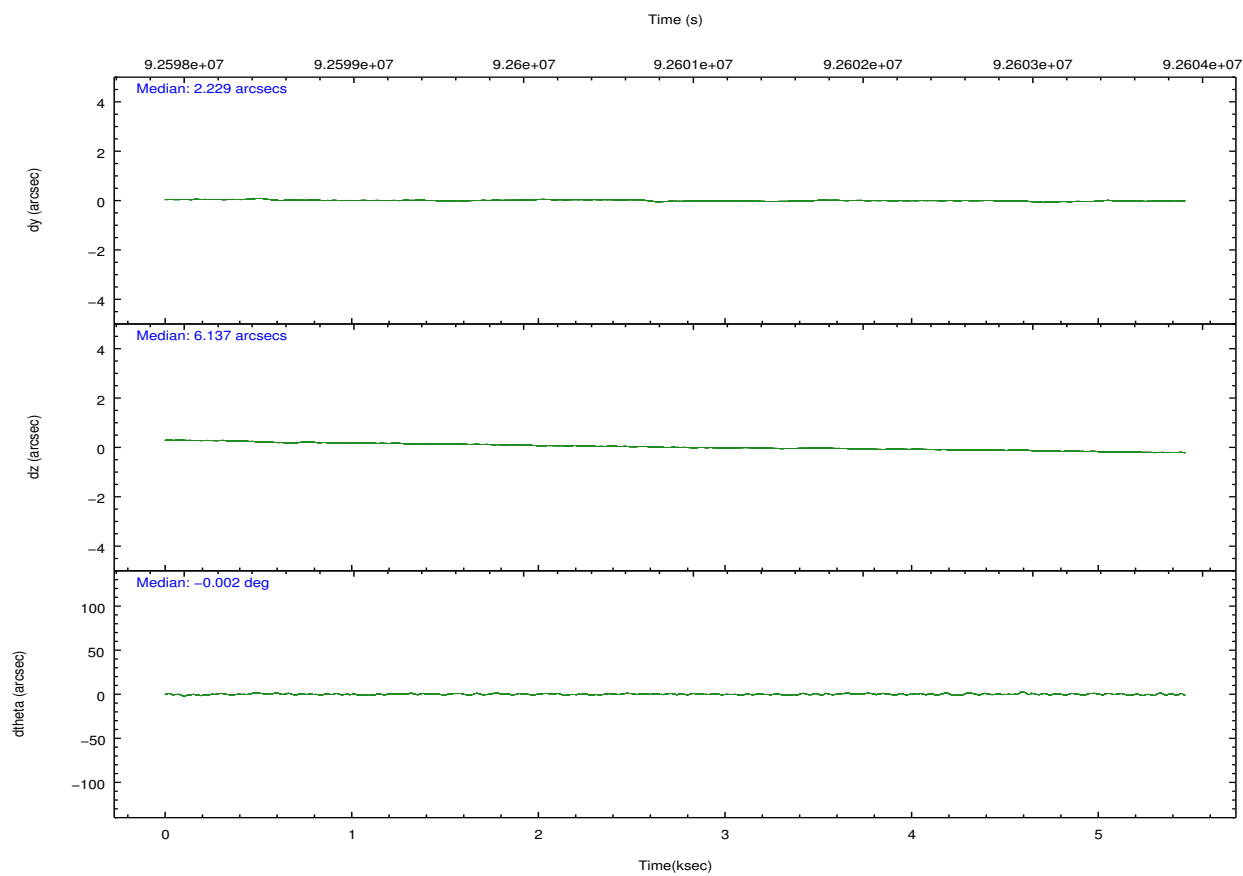
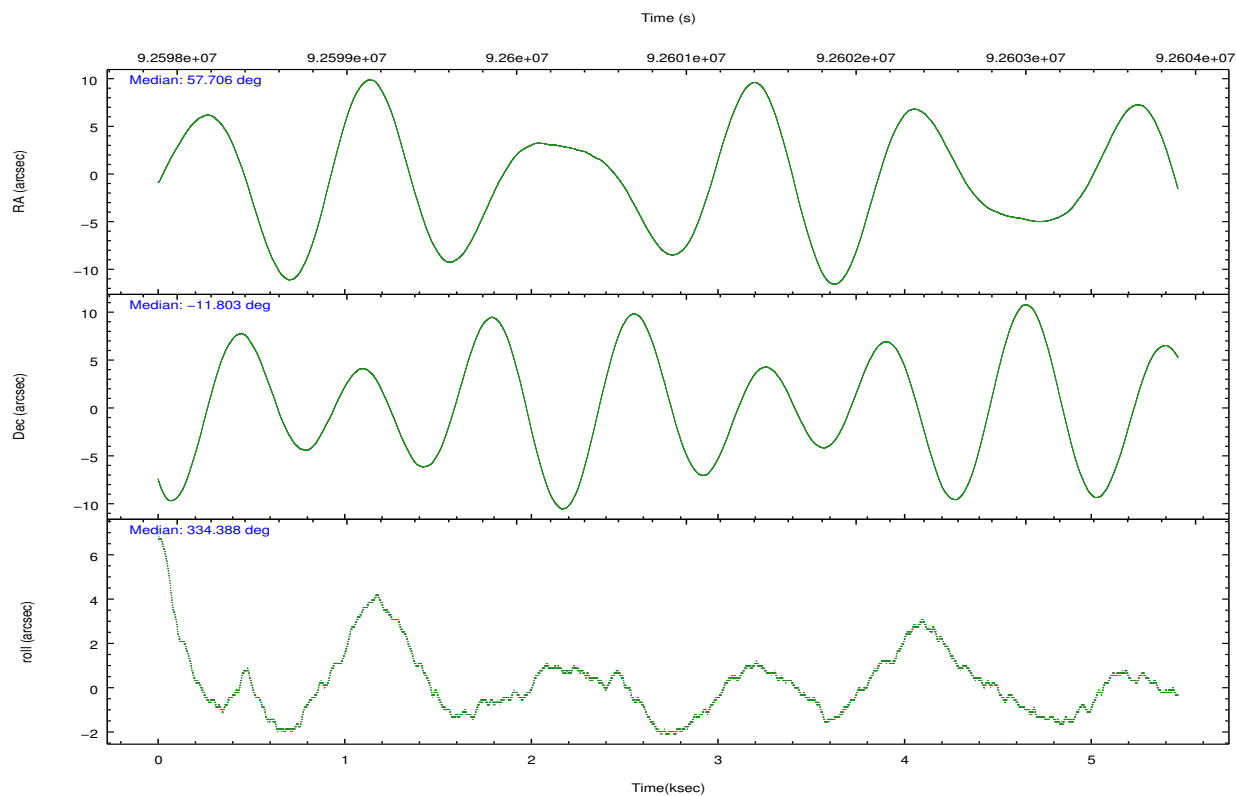


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	57.677753	57.70588401872448	Subarray requested	NONE	NONE
[deg] Pointing Dec	-11.804486	-11.80243312133327	Alternating exposures requested	N	N
[deg] Pointing Roll	334.181305	334.3957530350308	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	92599524.184000	92596282.02101			
Observation start date	2000-12-07T18:04:20	2000-12-07T17:11:22			
[s] Observation end time (MET)	92603624.184000	92604378.496319			
Observation end date	2000-12-07T19:12:40	2000-12-07T19:26:18			
Read mode	TIMED	TIMED			

## 2.3 Aspect



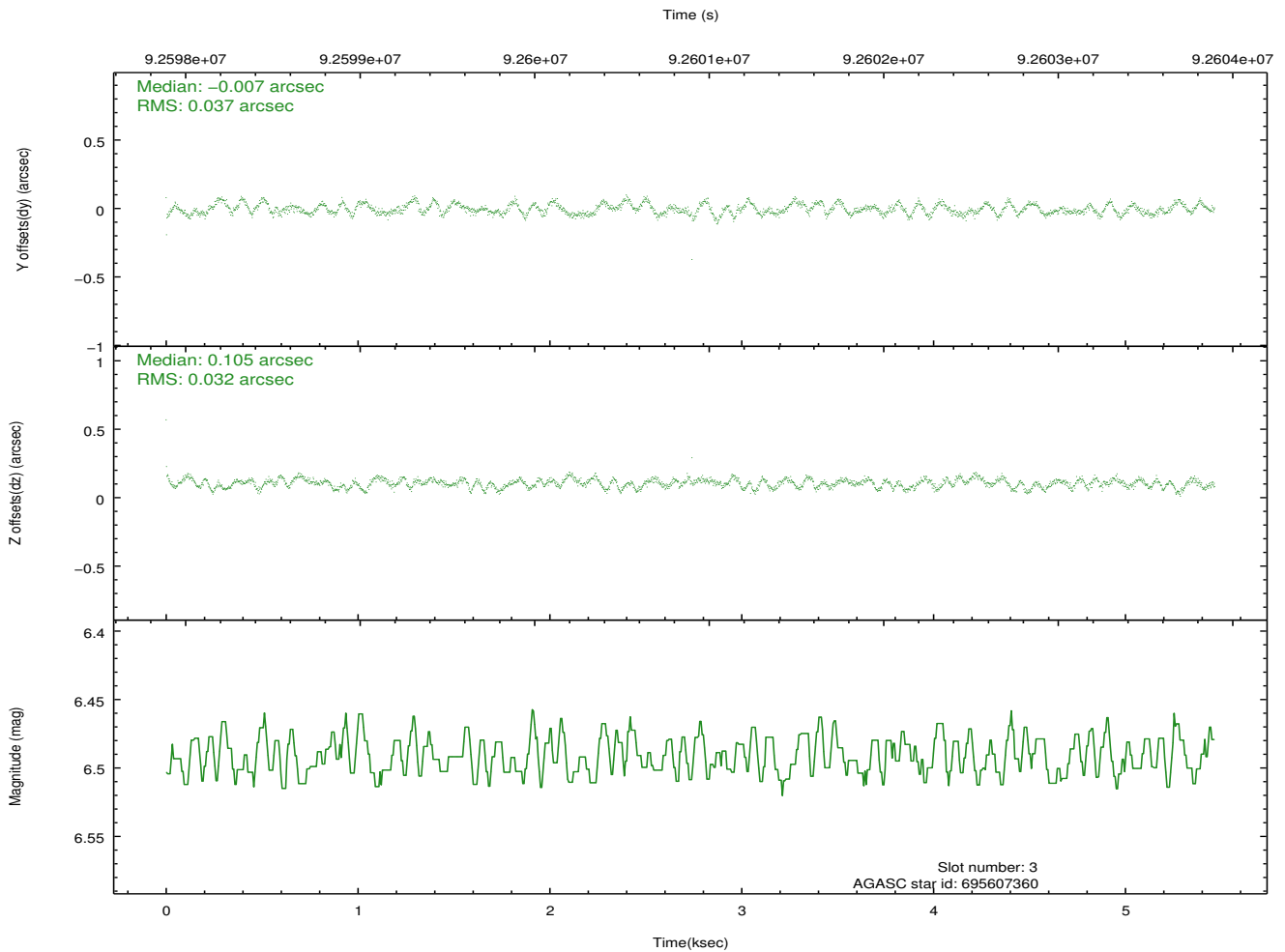
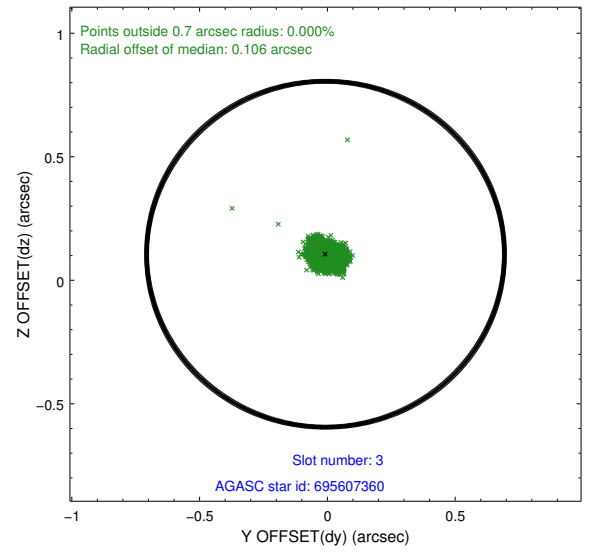
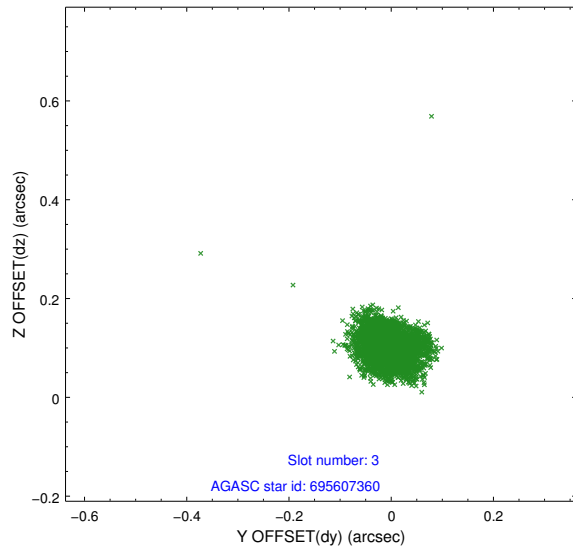


### Slot Statistics

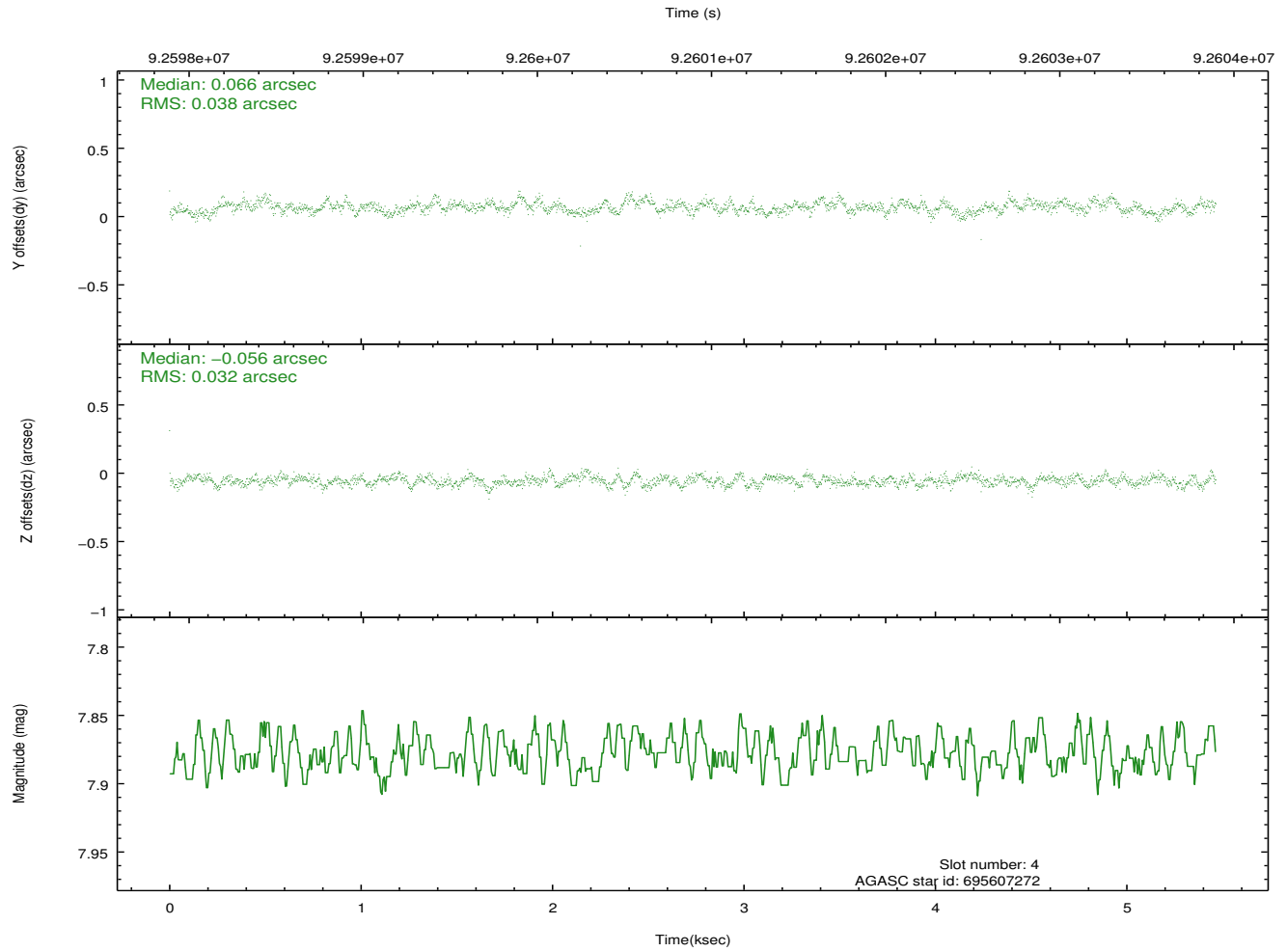
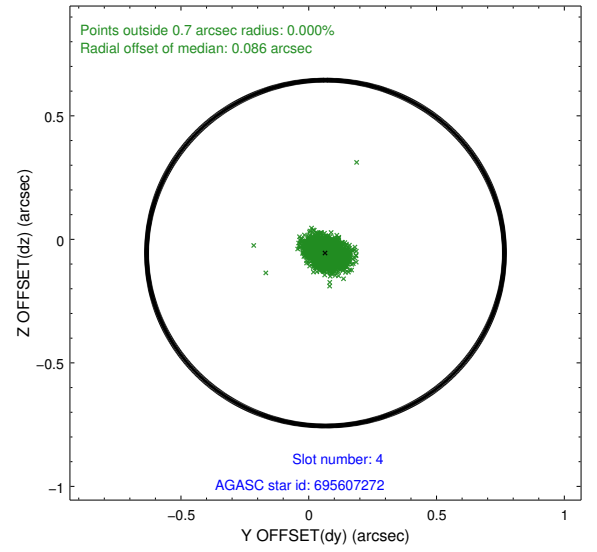
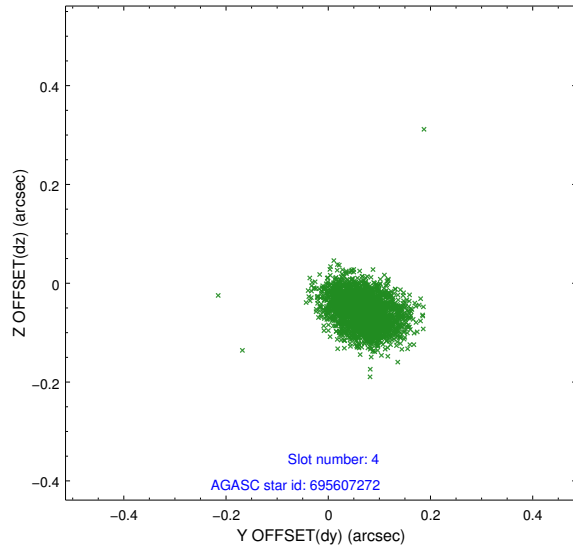
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.16	1332	-0.035	-0.068	0.009	0.017	0.000000	0.000000	-756.62	-835.97
1	FID	ACIS-I-4	7.19	1333	-0.014	0.046	0.006	0.010	0.000000	0.000000	2156.95	1069.78
2	FID	ACIS-I-5	7.23	1333	-0.051	0.090	0.008	0.015	0.000000	0.000000	-1809.05	1068.91
3	GUIDE	695607360	6.49	2667	-0.007	0.105	0.052	0.079	57.980987	-11.968093	1217.02	-65.44
4	GUIDE	695607272	7.88	2666	0.066	-0.056	0.052	0.085	57.646447	-11.995570	199.86	-667.42
5	GUIDE	695600576	8.62	2667	0.048	0.042	0.078	0.127	57.518567	-11.140332	-1548.65	1906.79
6	GUIDE	695606704	8.82	2664	-0.073	0.017	0.063	0.100	57.121508	-11.772196	-1816.03	-750.46
7	GUIDE	695605704	9.24	2665	-0.029	-0.109	0.068	0.112	57.218250	-12.059967	-1056.69	-1534.32

## 2.4 Star Slots

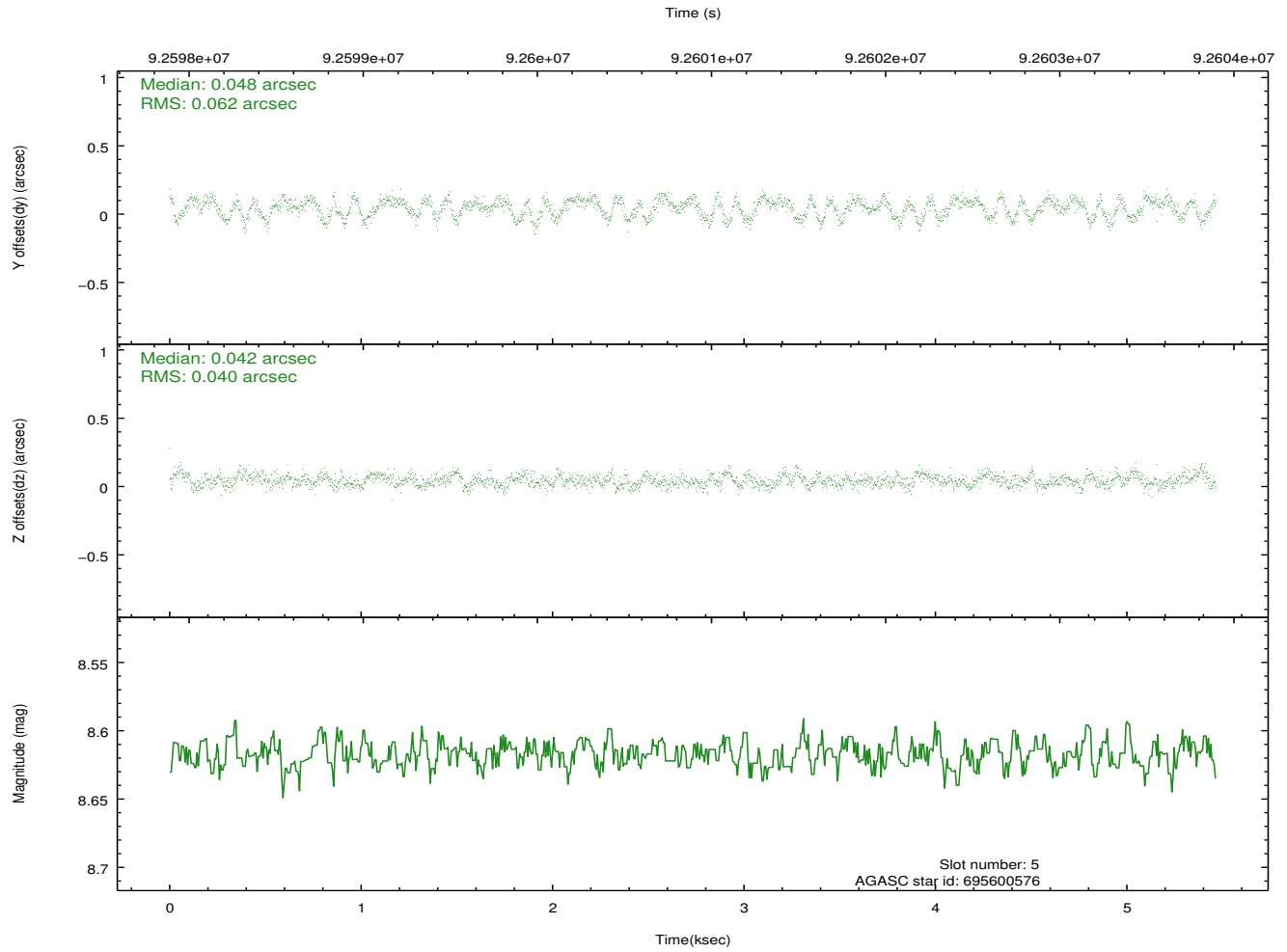
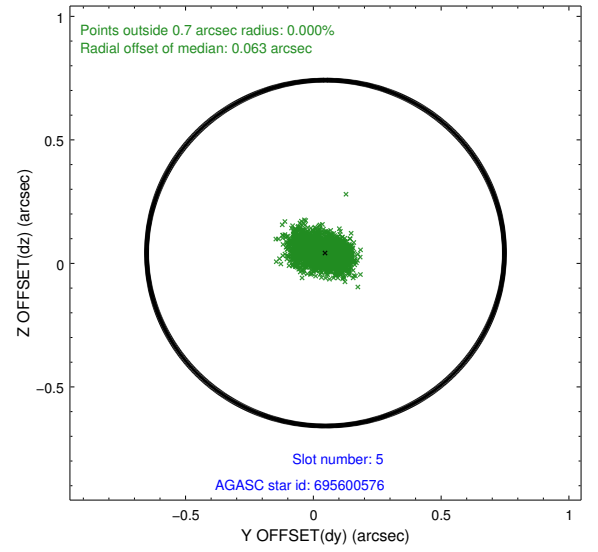
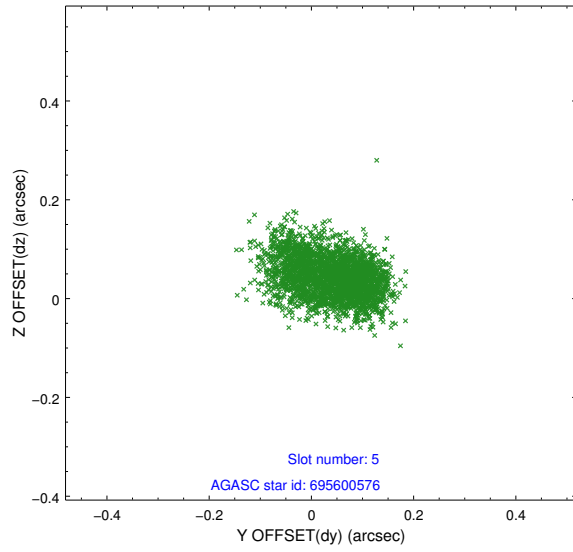
### 2.4.1 Slot 3



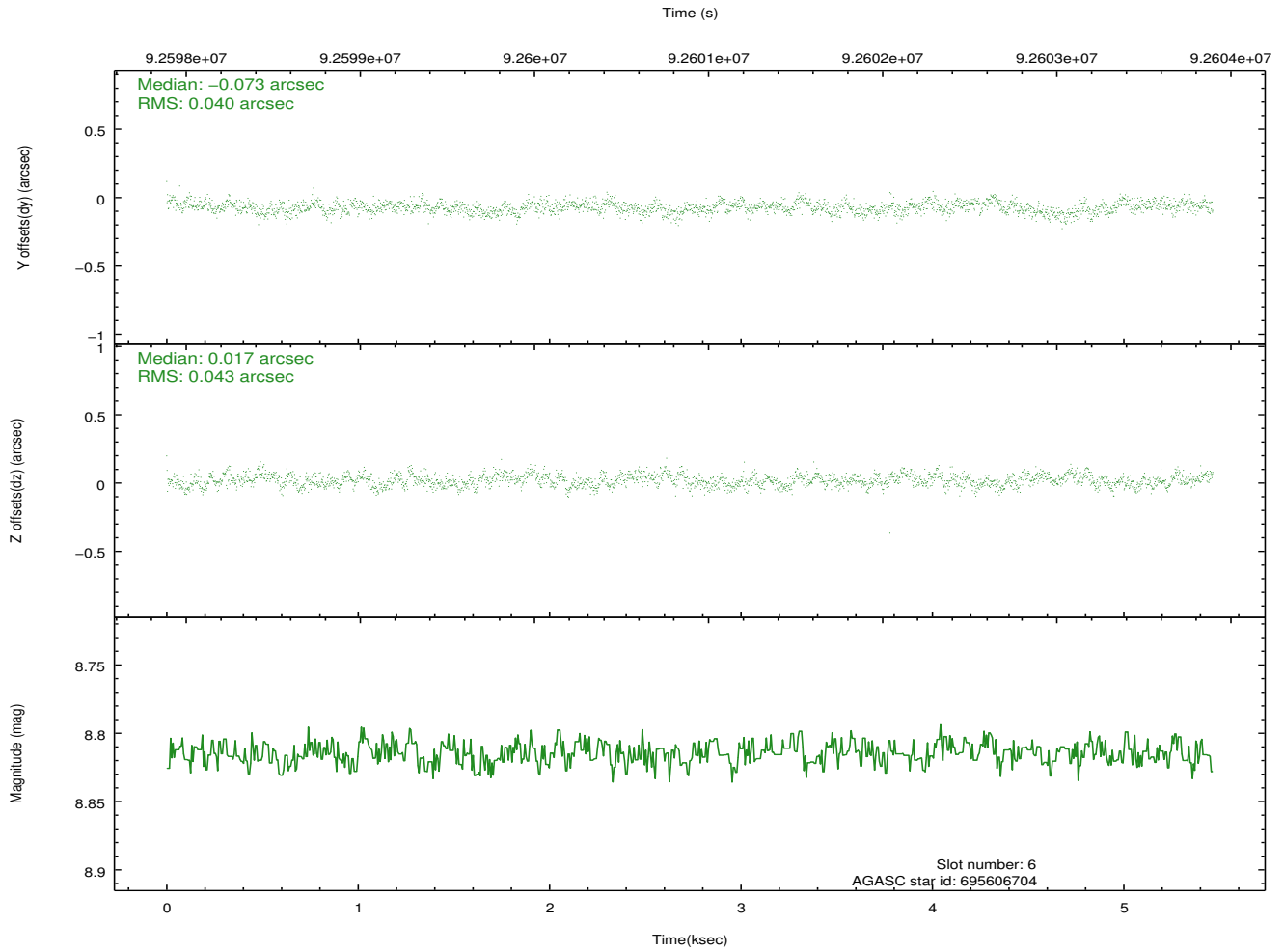
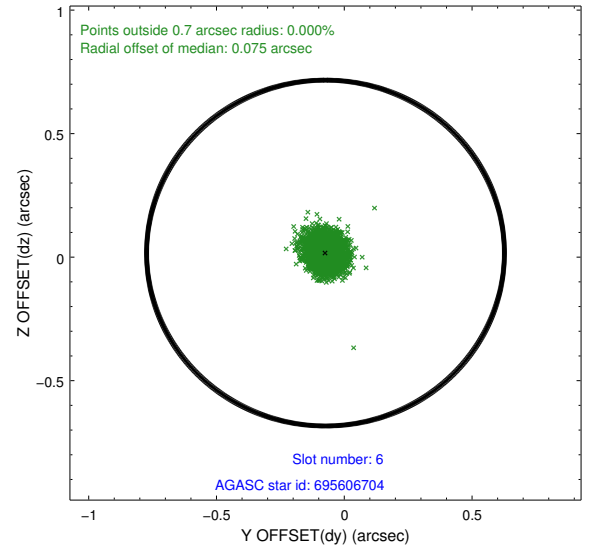
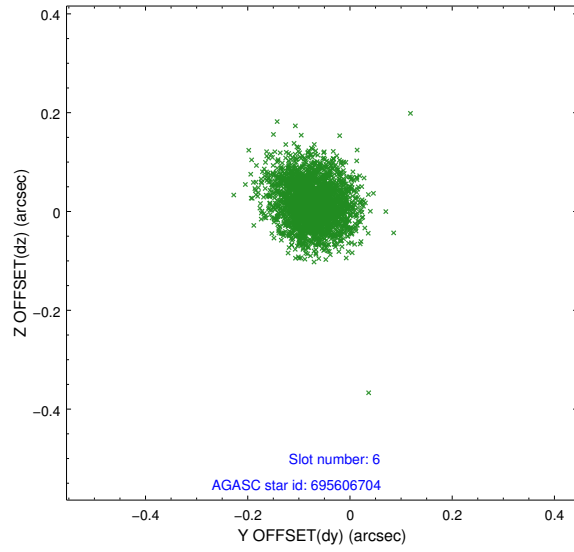
## 2.4.2 Slot 4



### 2.4.3 Slot 5

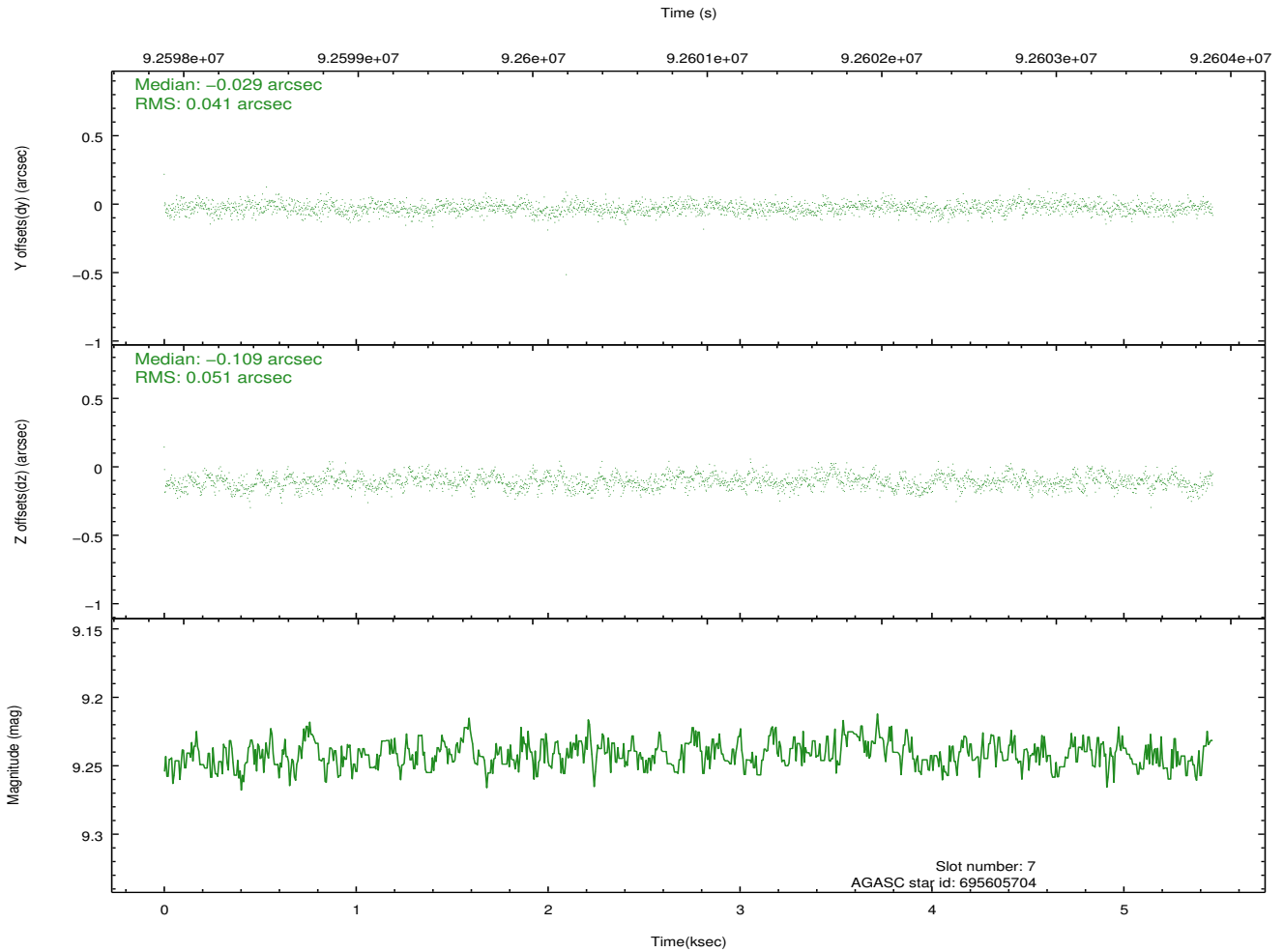
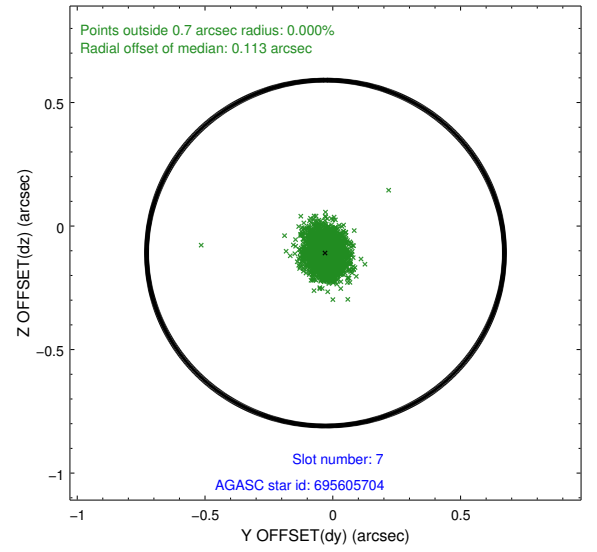
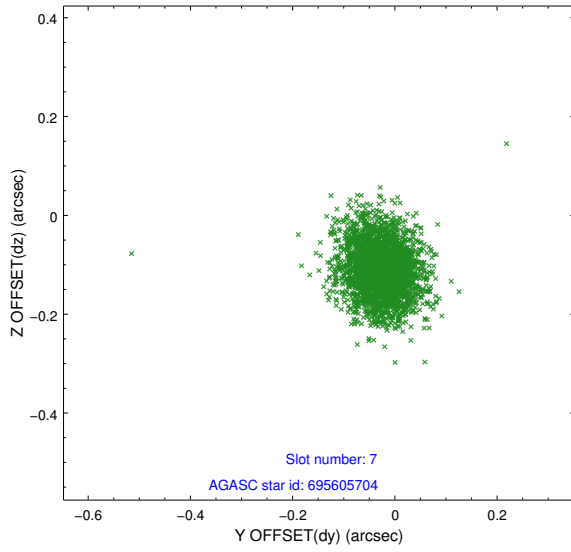


## 2.4.4 Slot 6



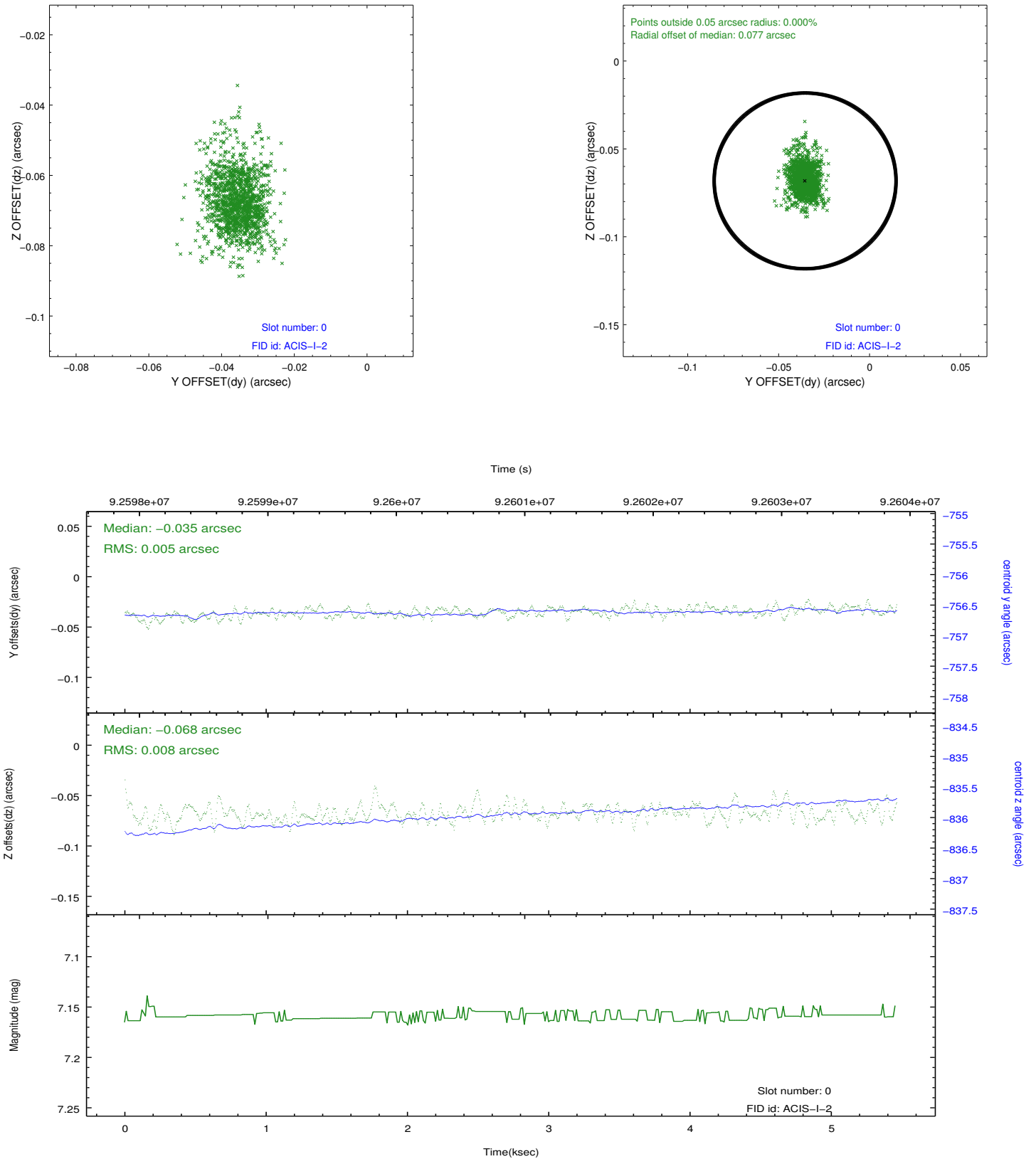


## 2.4.5 Slot 7

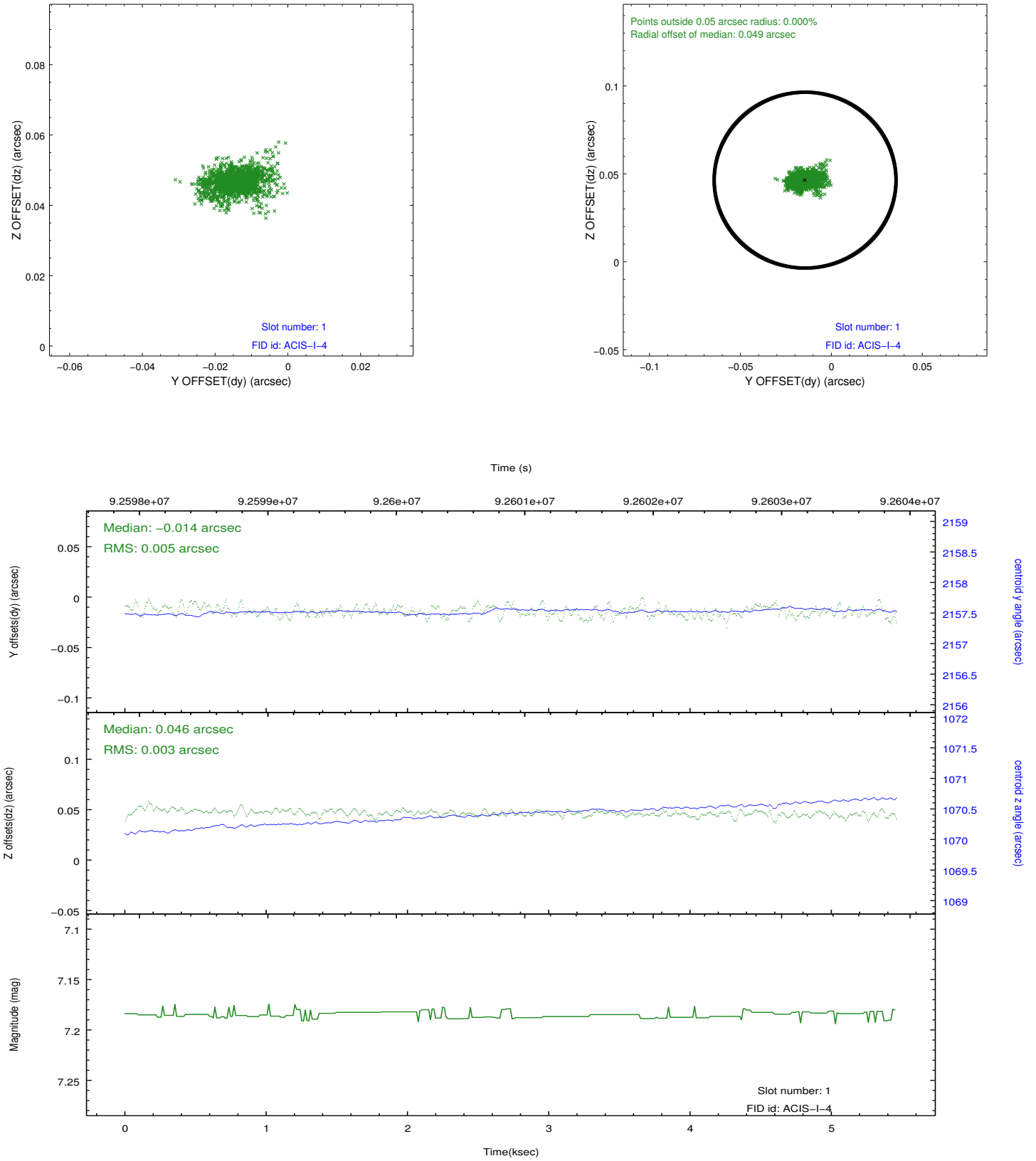


## 2.5 FID Slots

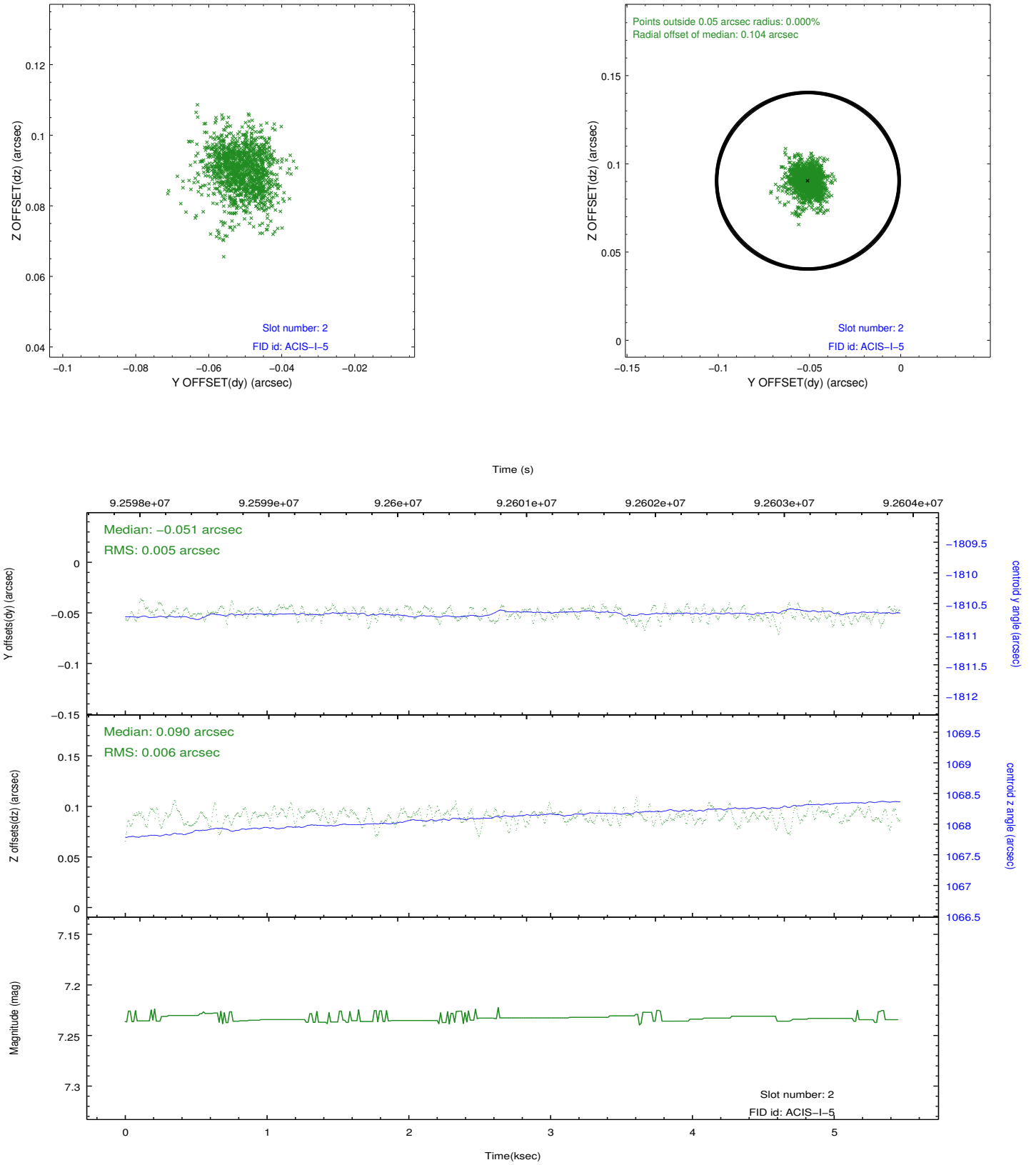
### 2.5.1 Slot 0



## 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)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.057

### A.2 Comments