

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5471 - L2 Version 3  
Chandra X-Ray Center

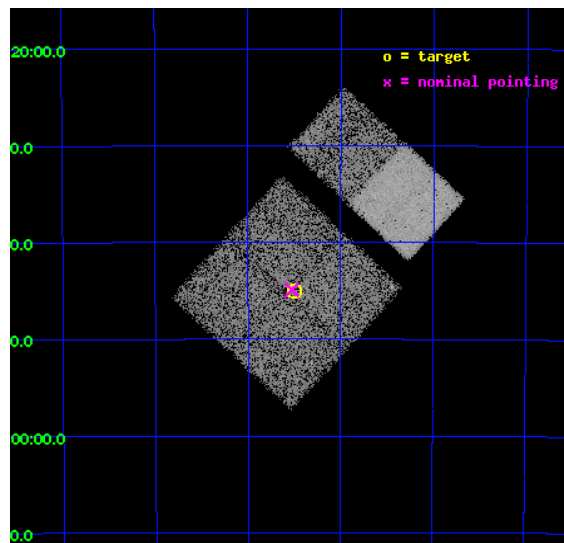
L2 Processing Date : Dec 22 2012

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# 1 Front

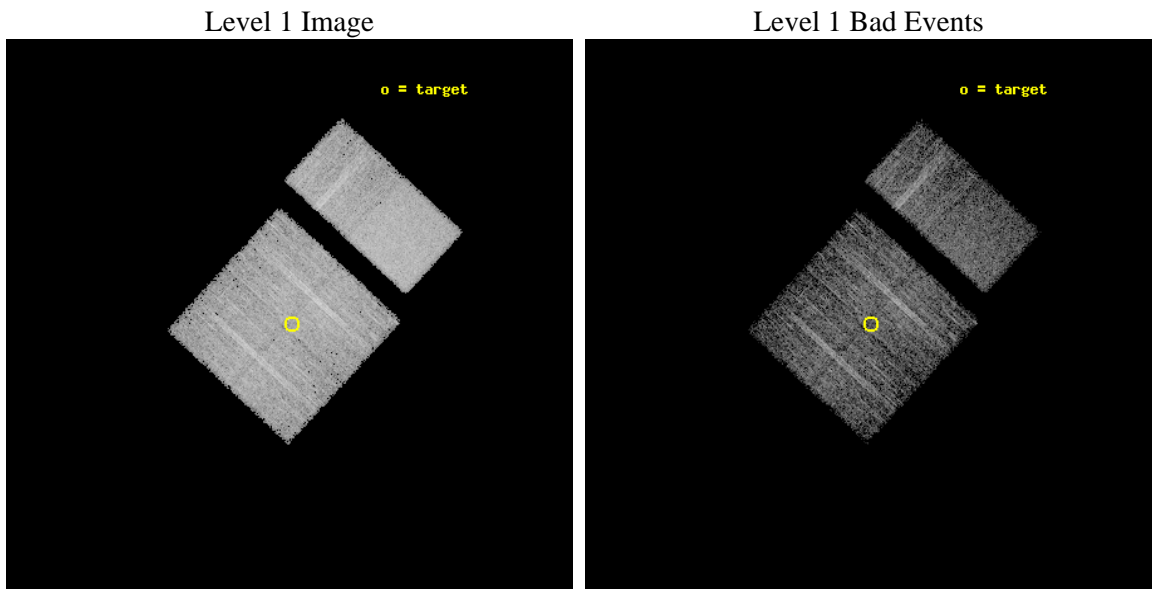
seq_num	400401	Sequence number
obs_id	5471	Observation id
title	Localization of INTEGRAL-Selected Sources in the Norma Region	Prop
observer	Dr. John Tomsick	Principal investigator
object	IGR J16195-4945	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.875	Observer's specified target RA [deg]
dec_targ	-49.75	Observer's specified target Dec [deg]
ra_nom	244.88146424647	Nominal RA [deg]
dec_nom	-49.748590302891	Nominal Dec [deg]
roll_nom	42.86145980558	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4811.7482337058	Sum of GTIs [s]
livetime	4750.8189802836	Livetime [s]
ontime0	4811.6251137257	Sum of GTIs [s]
ontime1	4811.6661536992	Sum of GTIs [s]
ontime2	4811.7071937025	Sum of GTIs [s]
ontime3	4811.7482337058	Sum of GTIs [s]
ontime6	4811.8303137124	Sum of GTIs [s]
ontime7	4811.7892737091	Sum of GTIs [s]
l2events	52515	Number of level 2 events



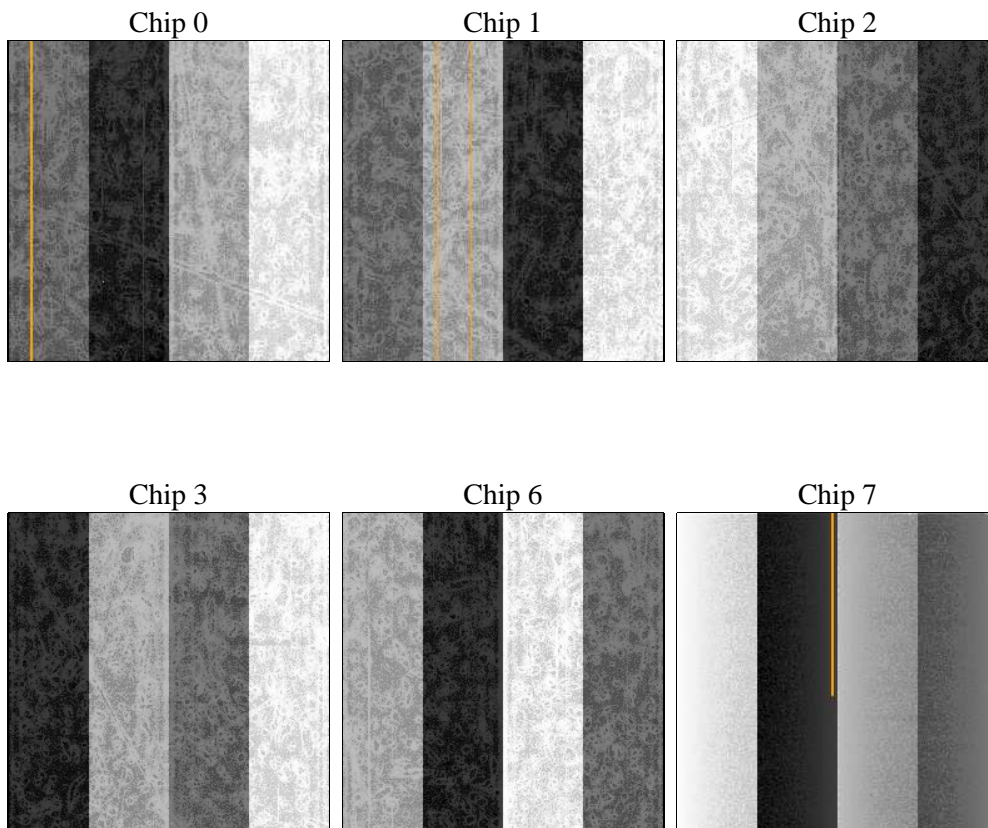
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4853.276000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	4811.7482337058	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime0	4811.6251137257	Sum of GTIs [s]
date	2012-12-22T15:57:47	Date and time of file creation	ontime1	4811.6661536992	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4811.7071937025	Sum of GTIs [s]
			ontime3	4811.7482337058	Sum of GTIs [s]
			ontime6	4811.8303137124	Sum of GTIs [s]
			ontime7	4811.7892737091	Sum of GTIs [s]
			l1events	247028	Number of level 1 events

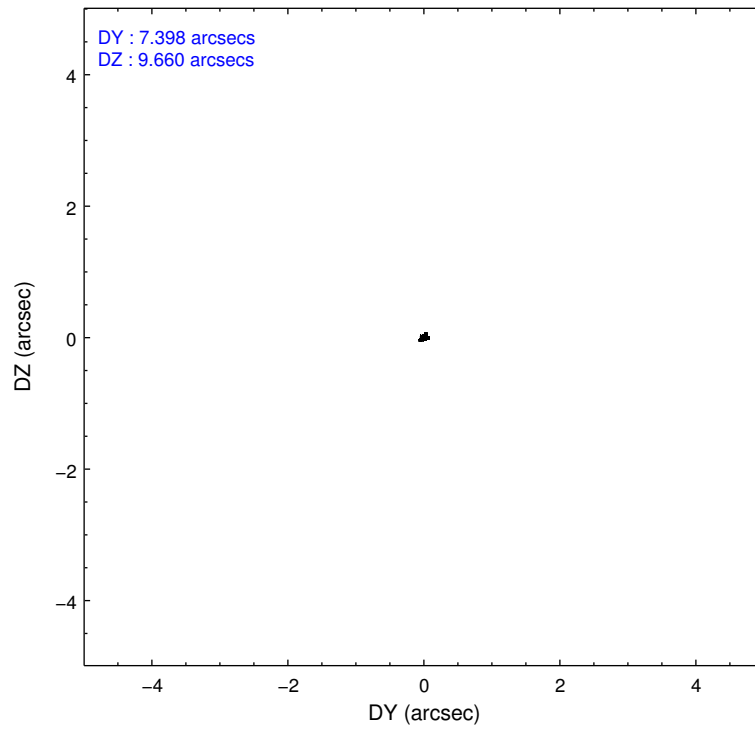
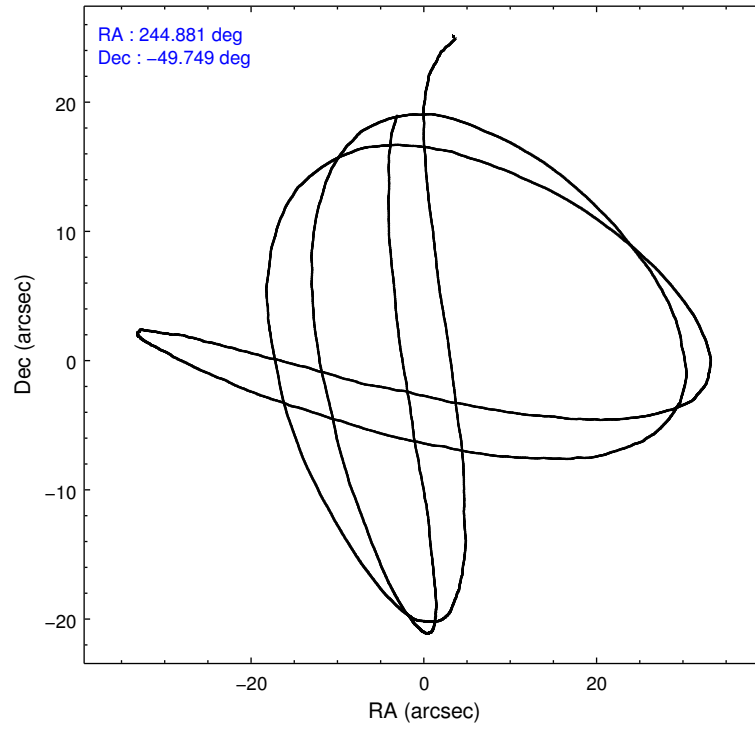
### 2.1.4 Events

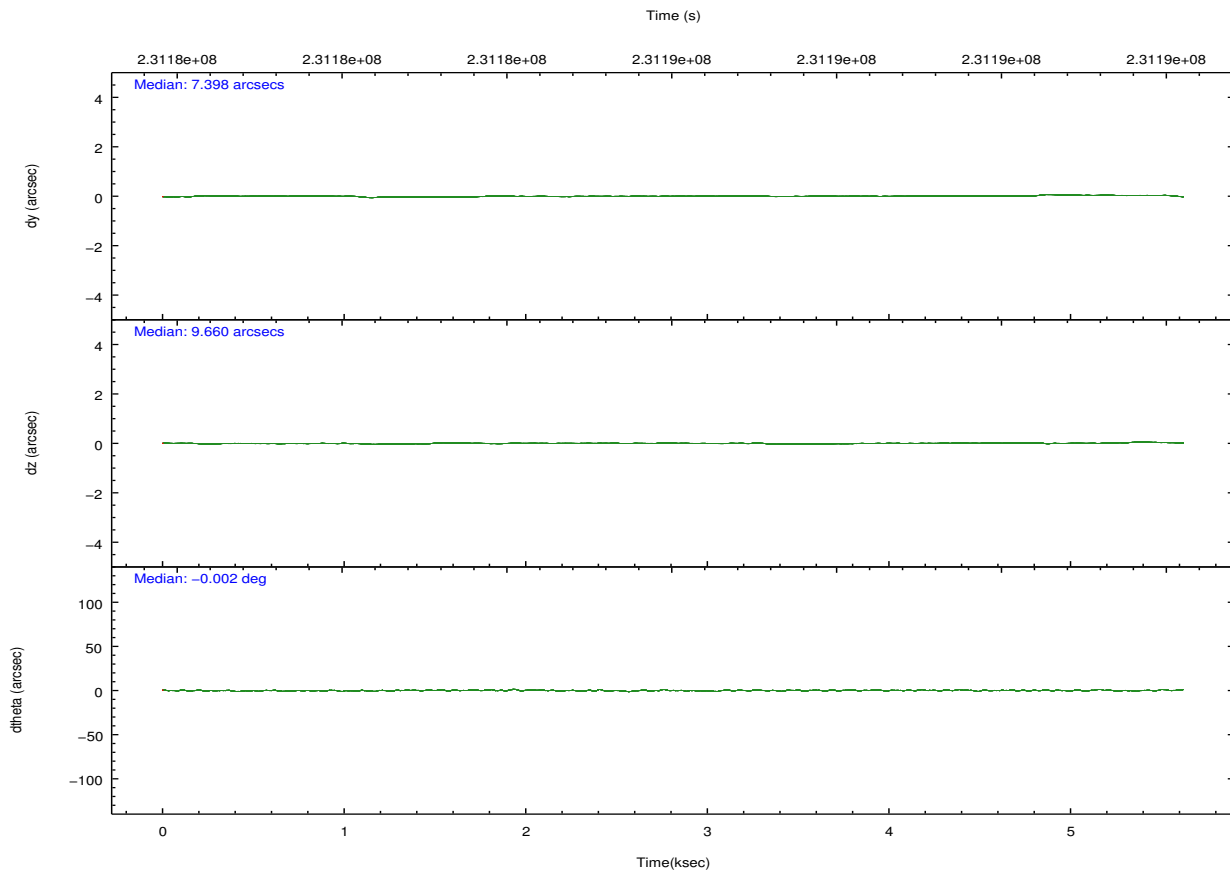
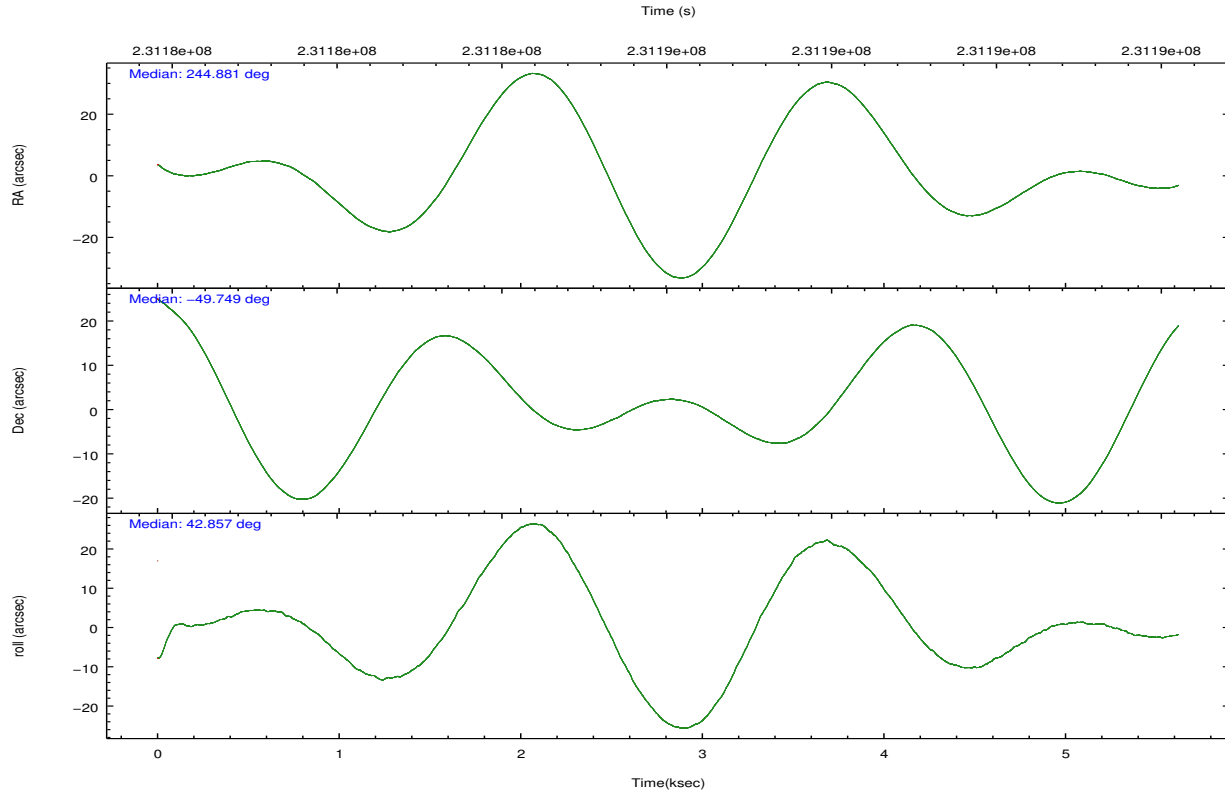
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	36268	36487	39485	40419	40819	53550	grade 0 events	3501	3352	3724	3566	3249	2216
rejected events	29748	29818	32872	33866	34294	29690		9%	9%	9%	8%	7%	4%
rejected %	82%	81%	83%	83%	84%	55%	grade 1 events	27	25	36	37	26	63
								0%	0%	0%	0%	0%	0%
							grade 2 events	1145	1295	1129	1102	1303	4518
								3%	3%	2%	2%	3%	8%
							grade 3 events	500	538	468	500	485	2046
								1%	1%	1%	1%	1%	3%
							grade 4 events	471	533	487	530	515	2000
								1%	1%	1%	1%	1%	3%
							grade 5 events	1500	1629	1499	1739	1780	4703
								4%	4%	3%	4%	4%	8%
							grade 6 events	908	959	809	863	977	13093
								2%	2%	2%	2%	2%	24%
							grade 7 events	28216	28156	31333	32082	32484	24911
								77%	77%	79%	79%	79%	46%

## 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	244.869418	244.8814642464733	Subarray requested	NONE	NONE
[deg] Pointing Dec	-49.774615	-49.74859030289065	Alternating exposures requested	N	N
[deg] Pointing Roll	42.643574	42.86145980557995	[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)	231183969.184000	231182719.2016			
Observation start date	2005-04-29T17:45:05	2005-04-29T17:25:19			
[s] Observation end time (MET)	231188822.184000	231189057.28938			
Observation end date	2005-04-29T19:05:58	2005-04-29T19:10:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





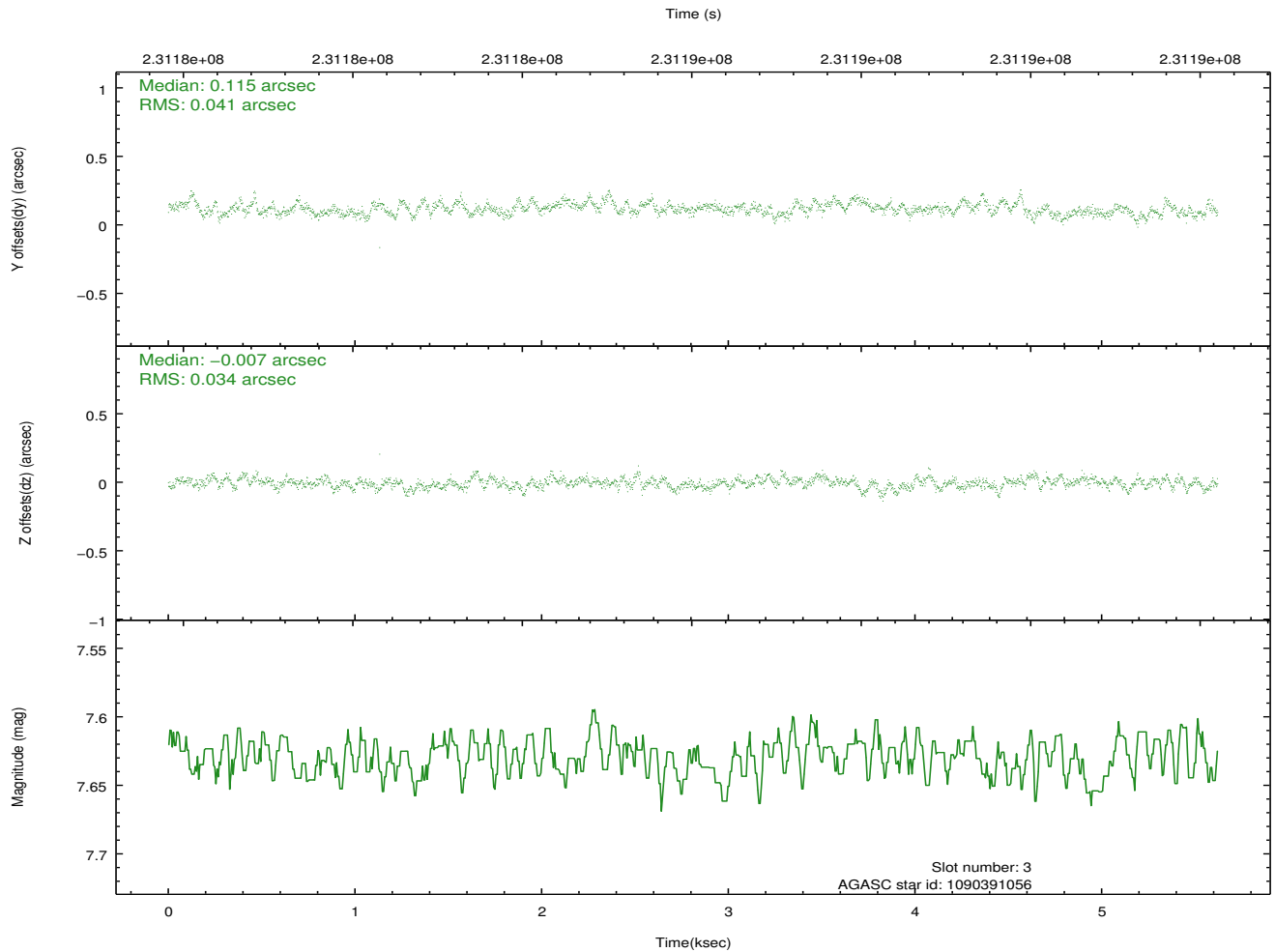
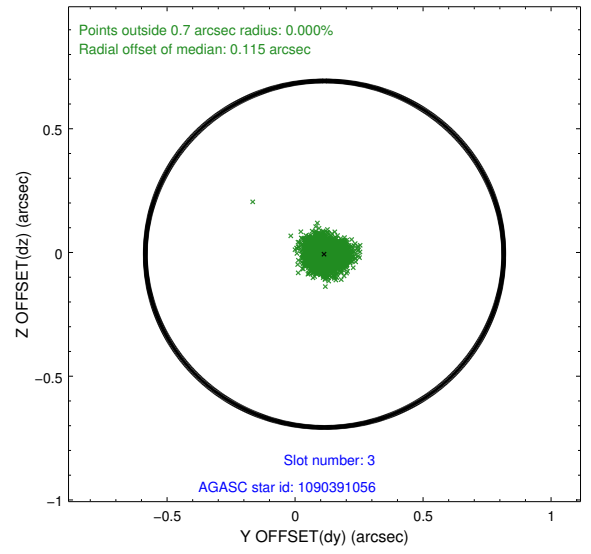
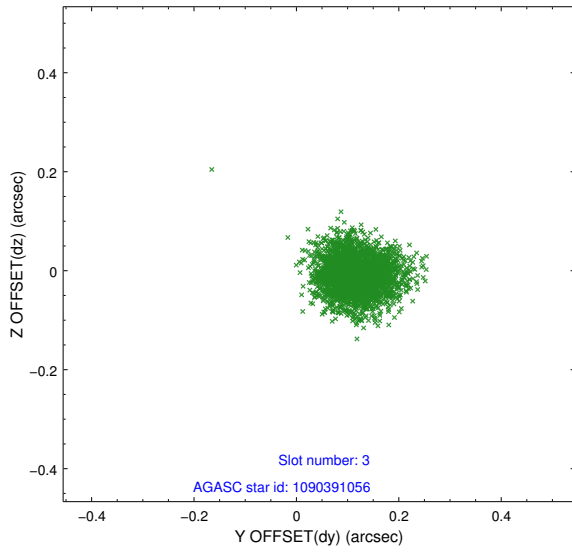
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1372	-0.000	0.030	0.007	0.011	0.000000	0.000000	932.28	-833.08
1	FID	ACIS-I-5	7.23	1372	-0.159	0.023	0.006	0.011	0.000000	0.000000	-1815.41	1063.85
2	FID	ACIS-I-6	7.25	1372	0.068	0.017	0.007	0.011	0.000000	0.000000	396.72	1709.57
3	GUIDE	1090391056	7.63	2742	0.115	-0.007	0.057	0.092	244.221245	-49.856754	-1310.24	796.80
4	GUIDE	1090399840	7.59	2743	0.160	-0.101	0.049	0.078	243.797224	-49.874464	-2084.57	1407.86
5	GUIDE	1090519800	8.86	2743	-0.011	0.106	0.071	0.117	245.591117	-49.628512	1589.21	-758.21
6	GUIDE	1090522688	8.04	2743	-0.180	-0.107	0.061	0.097	245.358664	-49.397960	1760.78	218.08
7	GUIDE	1090520992	7.48	2741	-0.084	0.106	0.048	0.080	245.489527	-49.662443	1334.24	-685.79

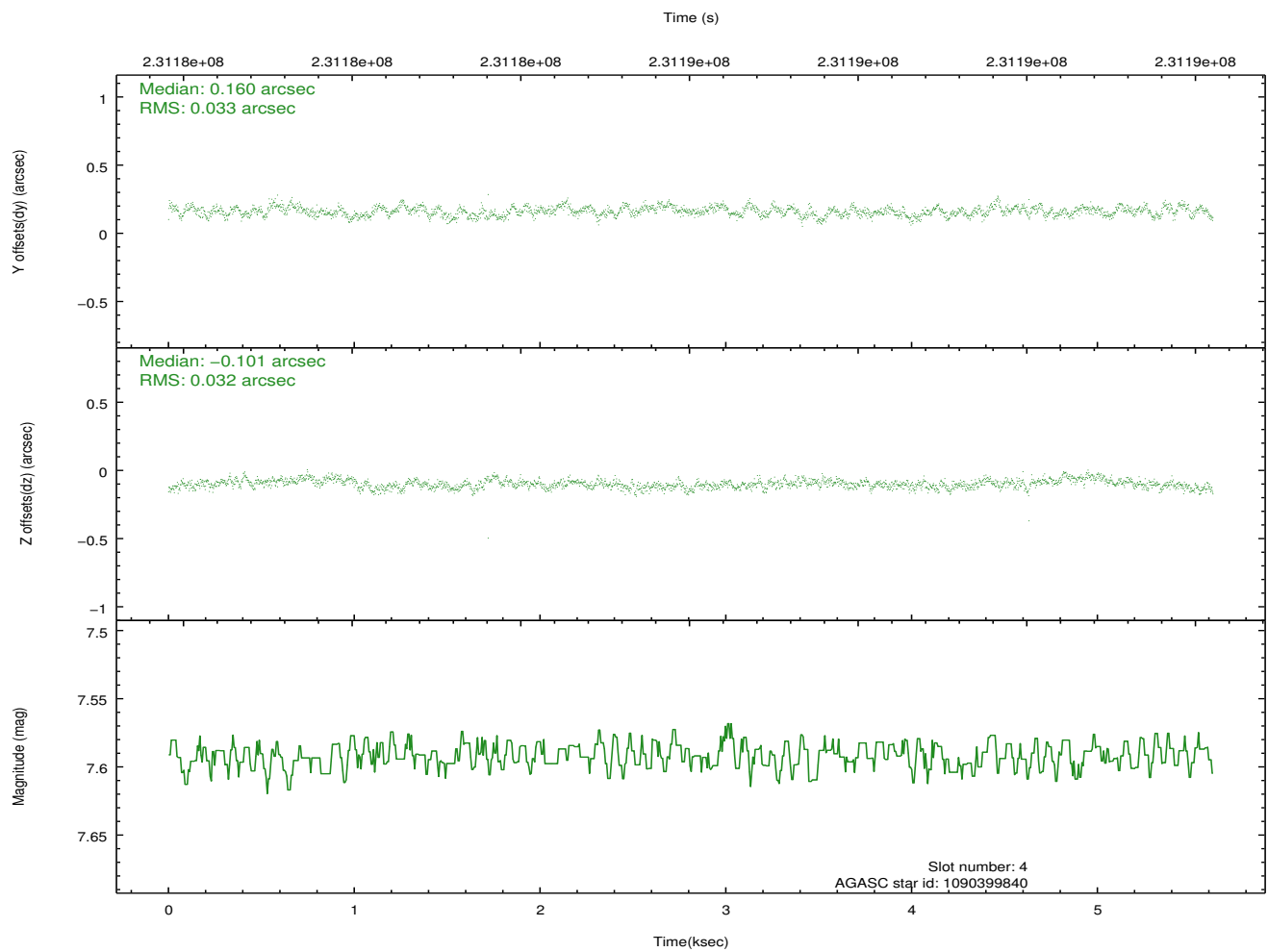
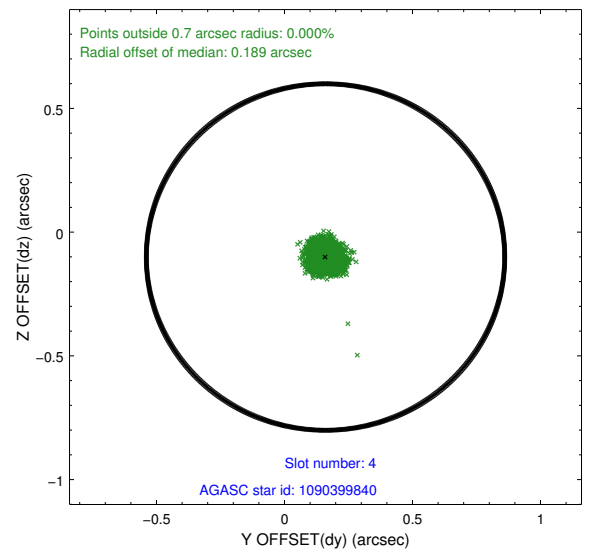
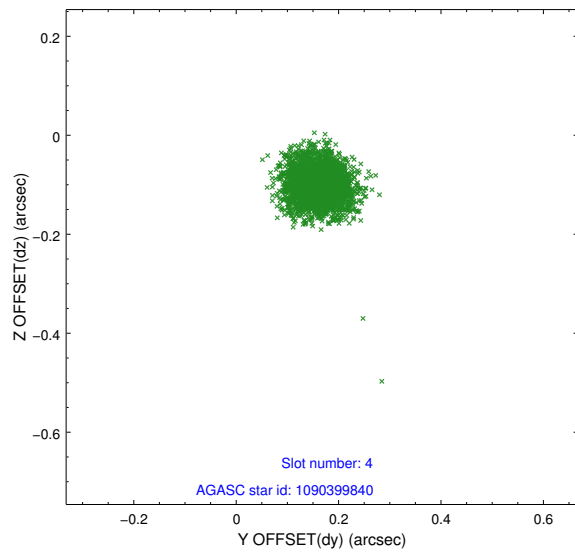
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## 2.4 Star Slots

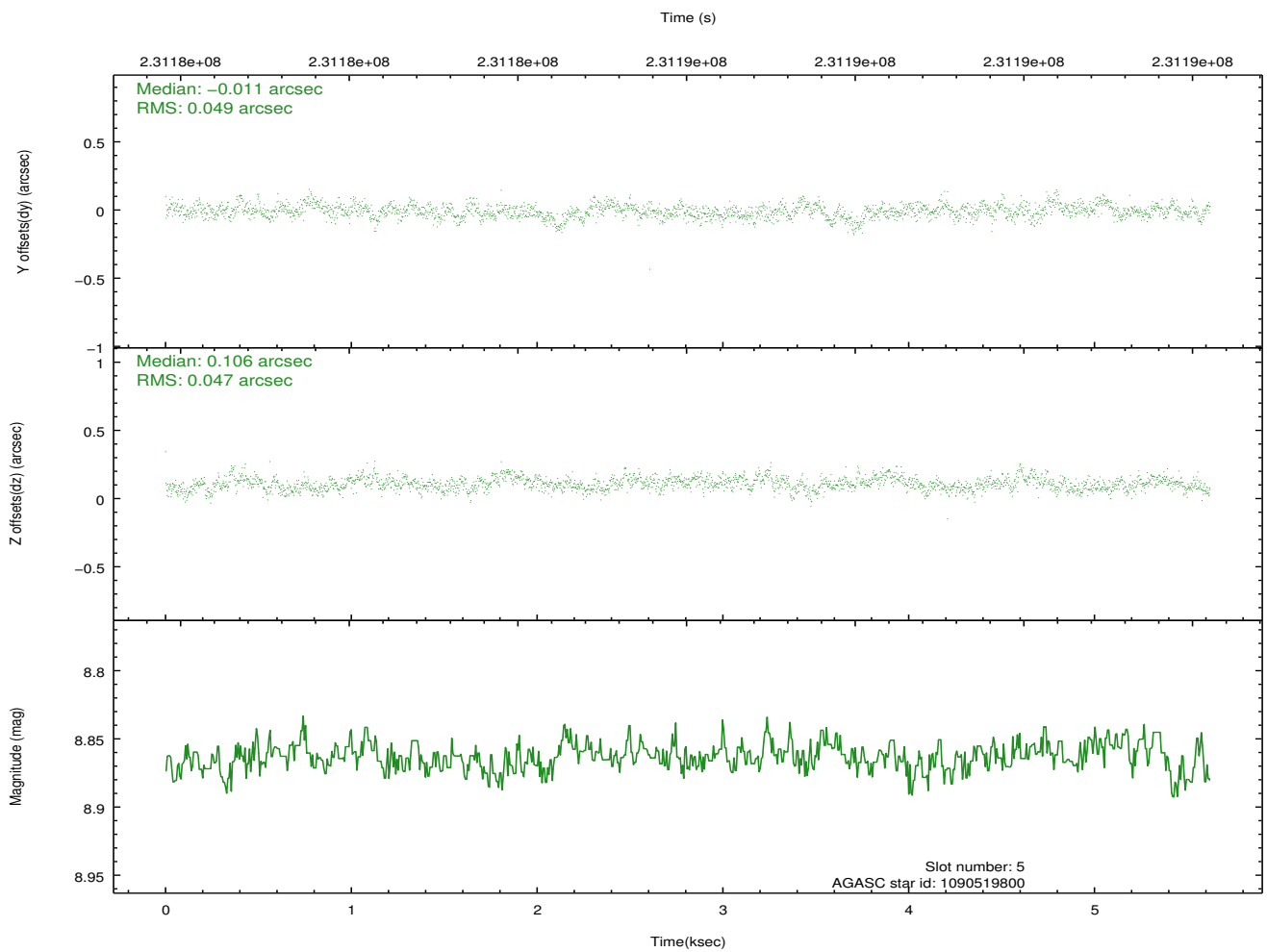
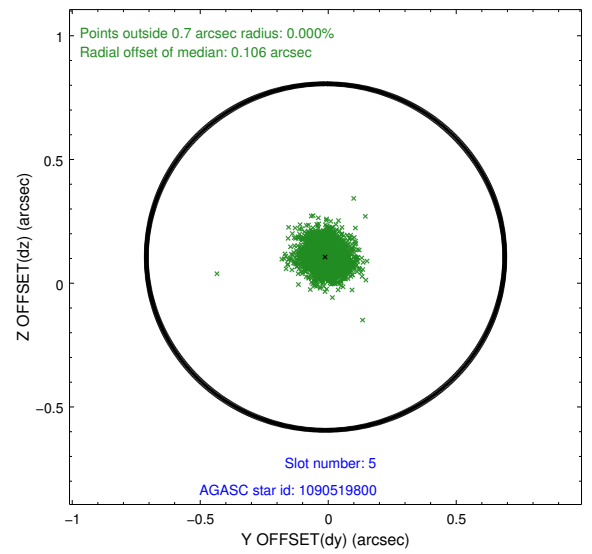
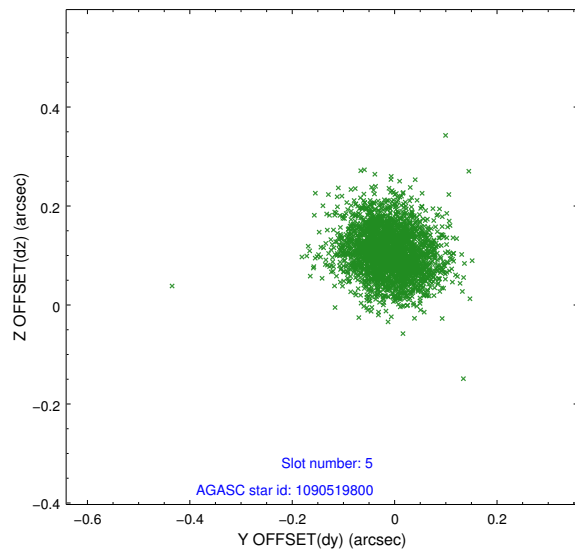
### 2.4.1 Slot 3



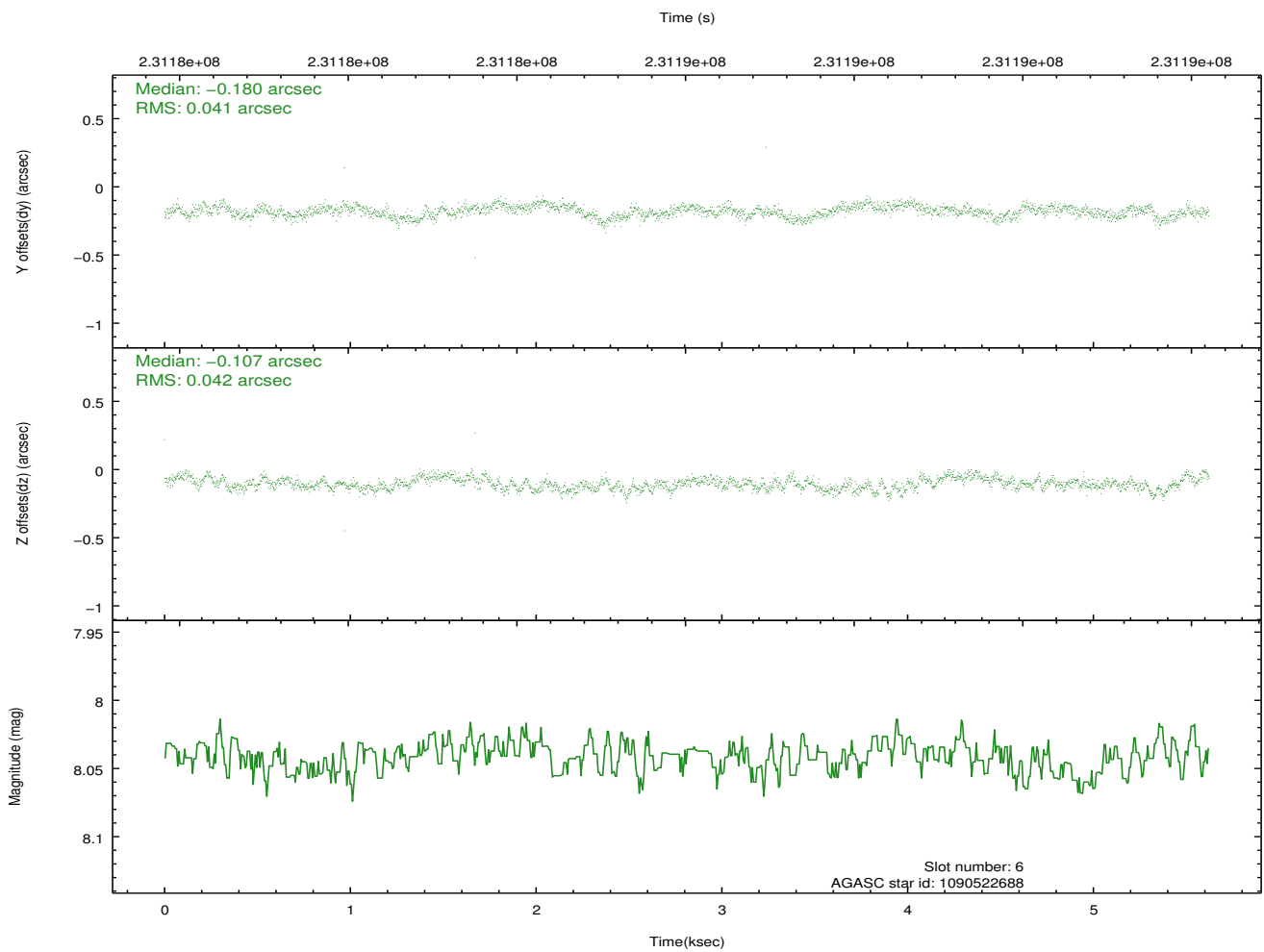
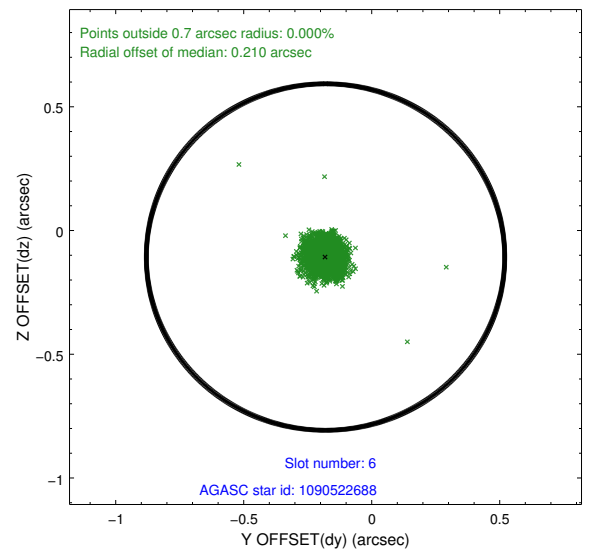
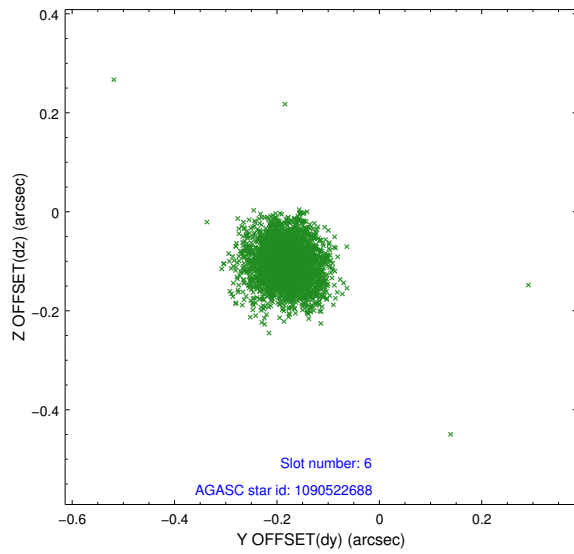
## 2.4.2 Slot 4



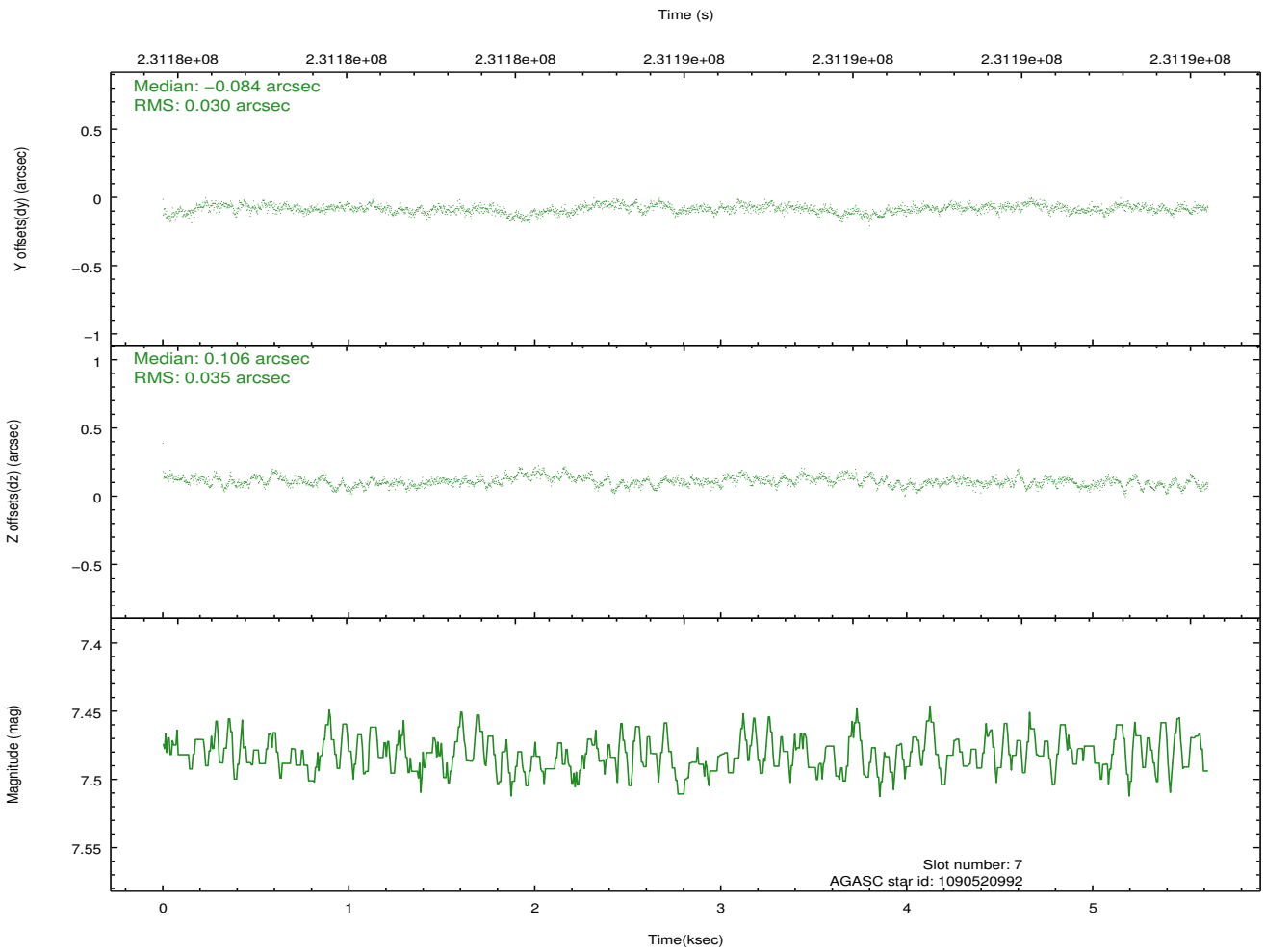
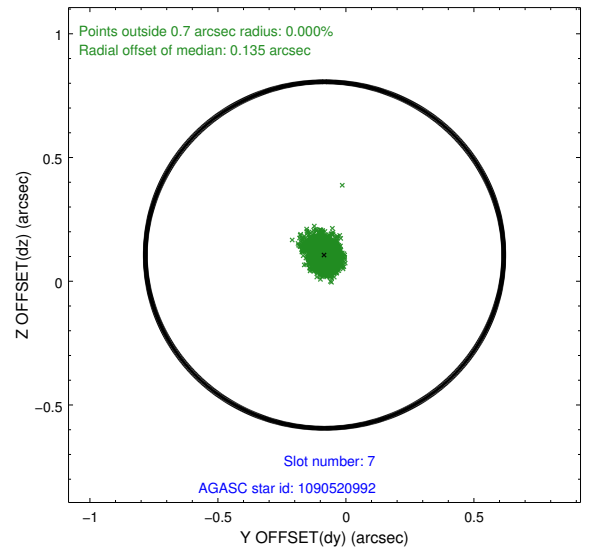
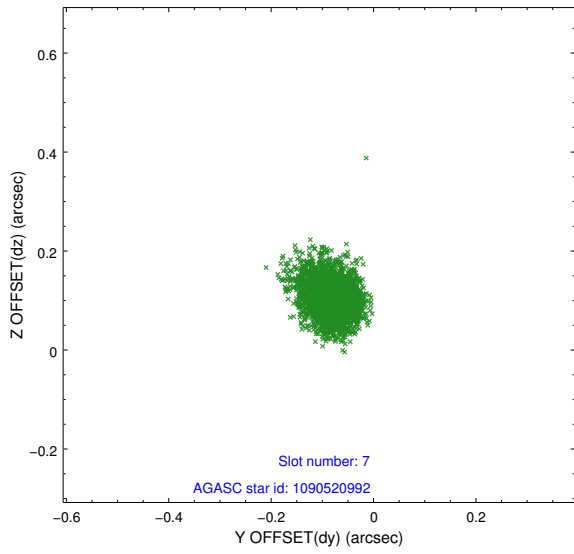
### 2.4.3 Slot 5



## 2.4.4 Slot 6

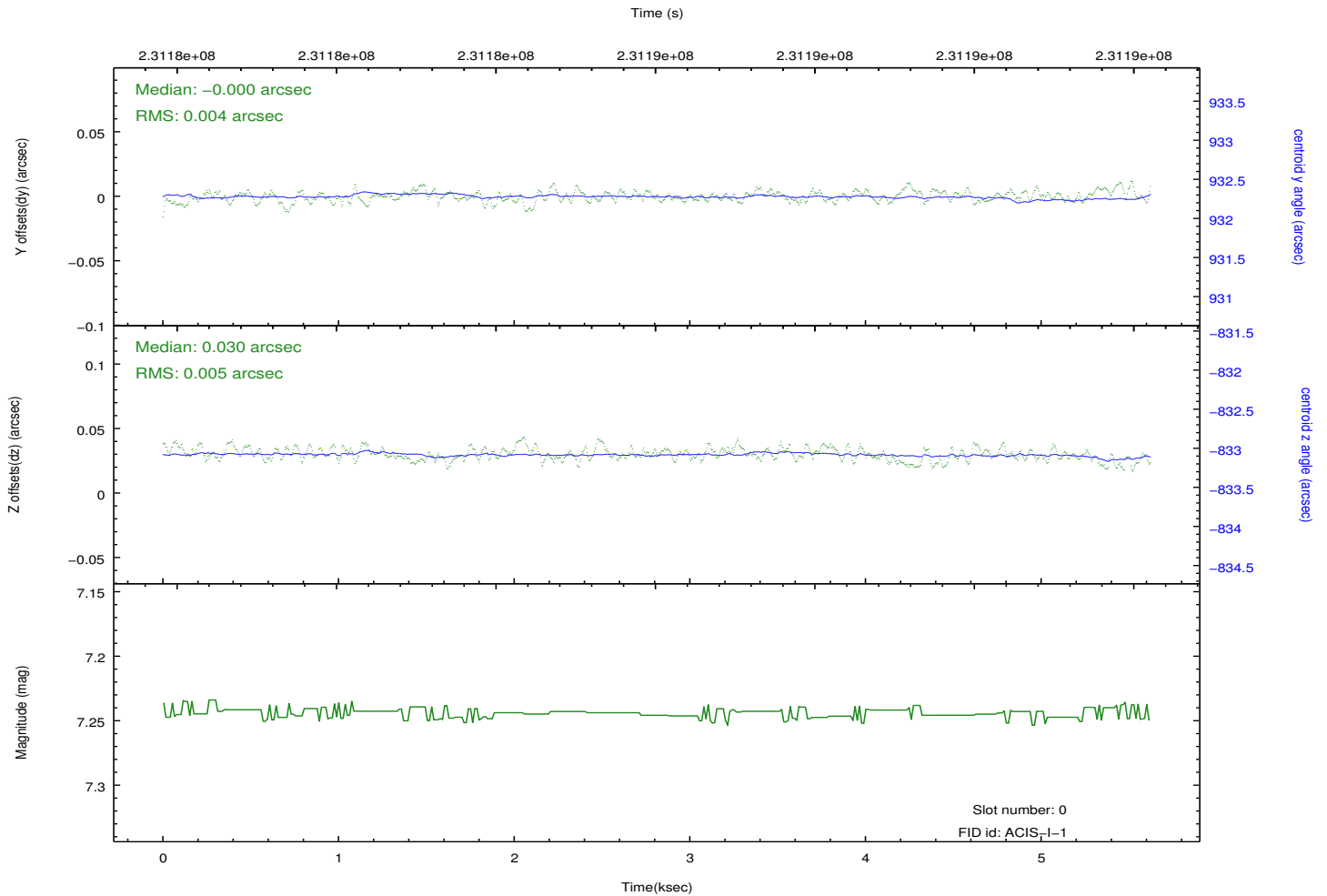
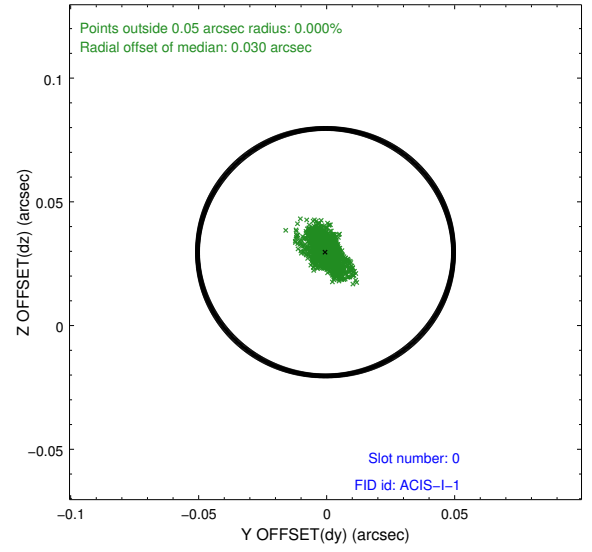
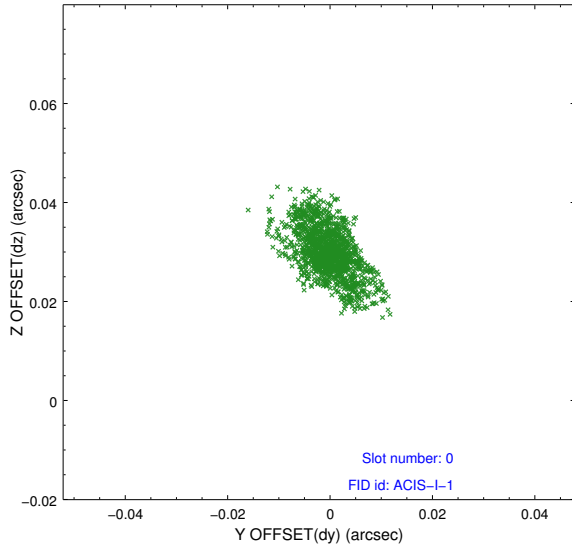


### 2.4.5 Slot 7

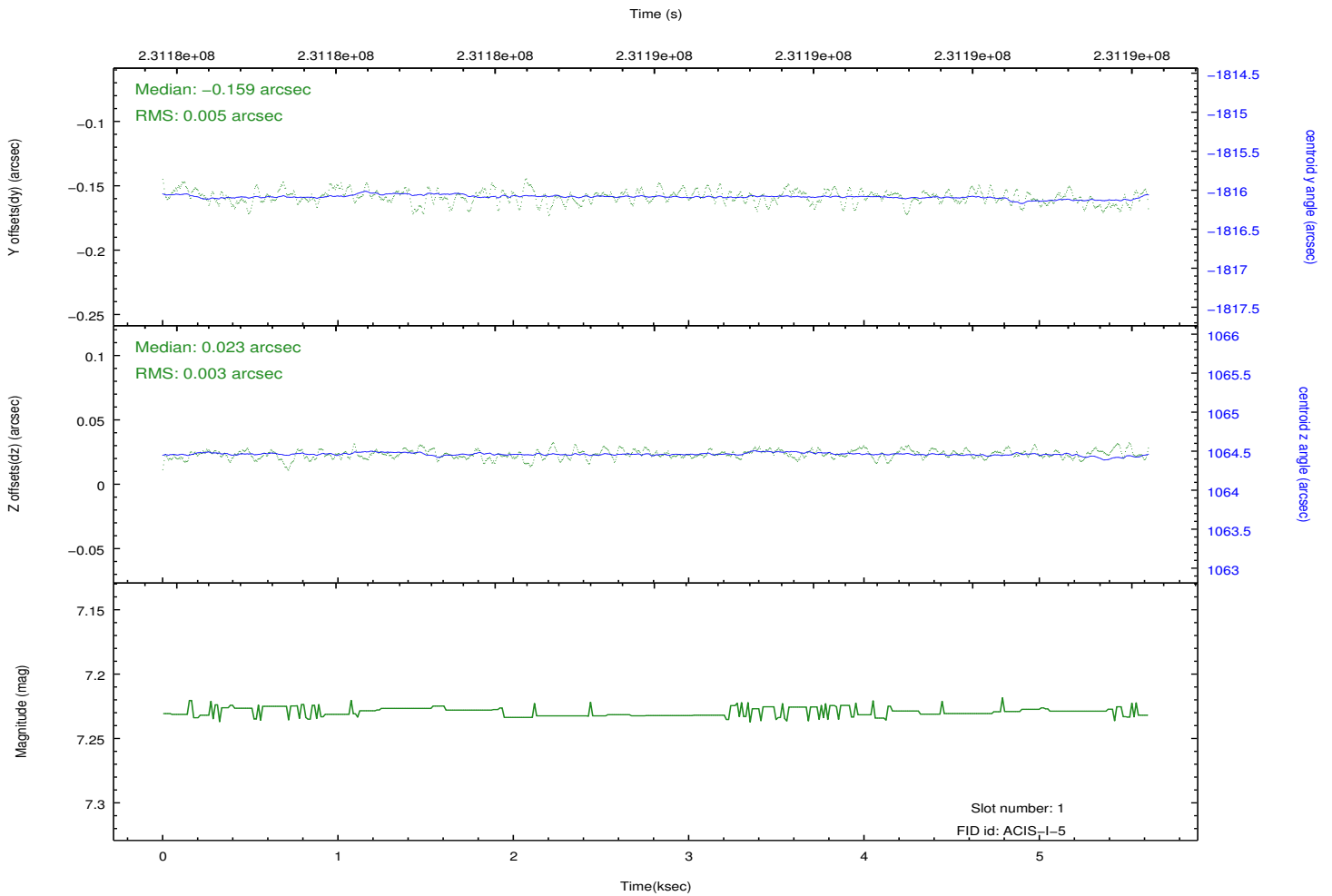
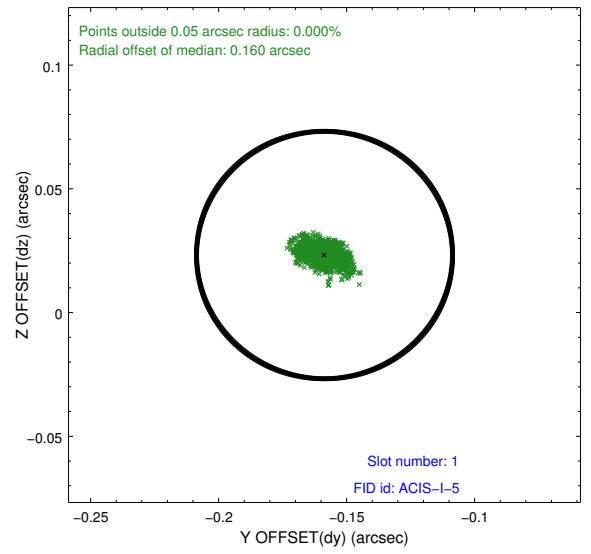
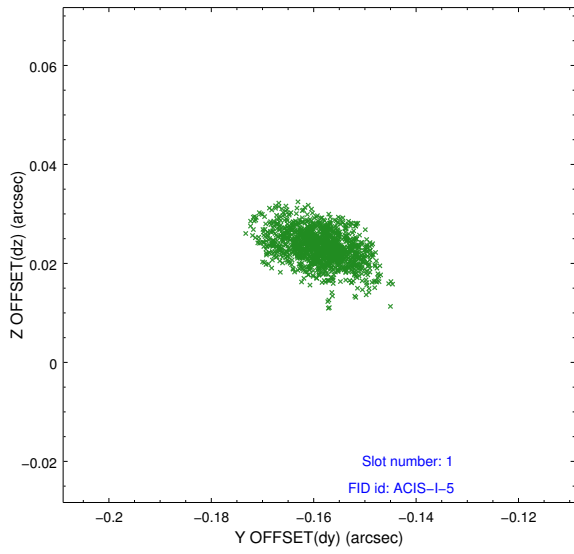


## 2.5 FID Slots

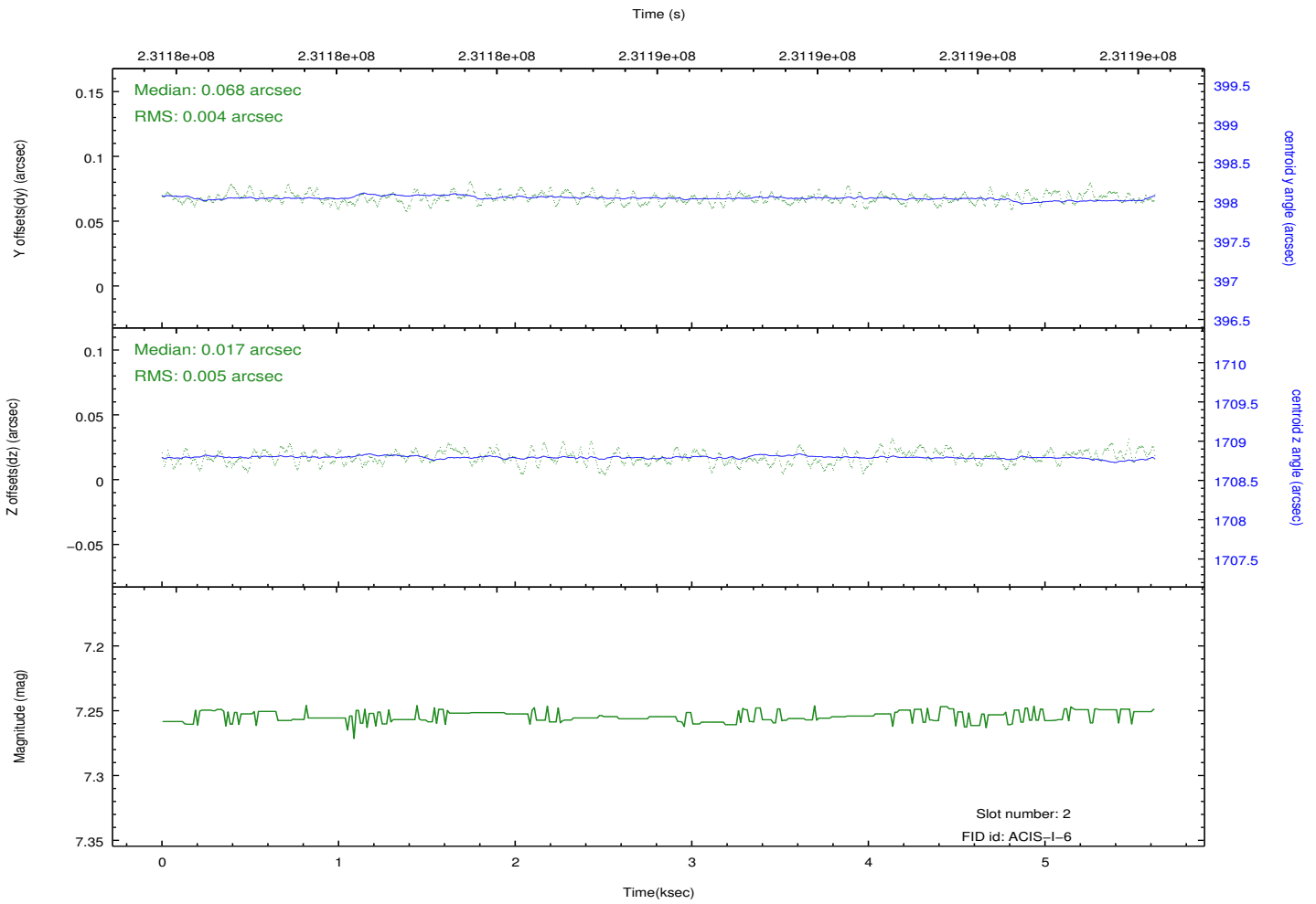
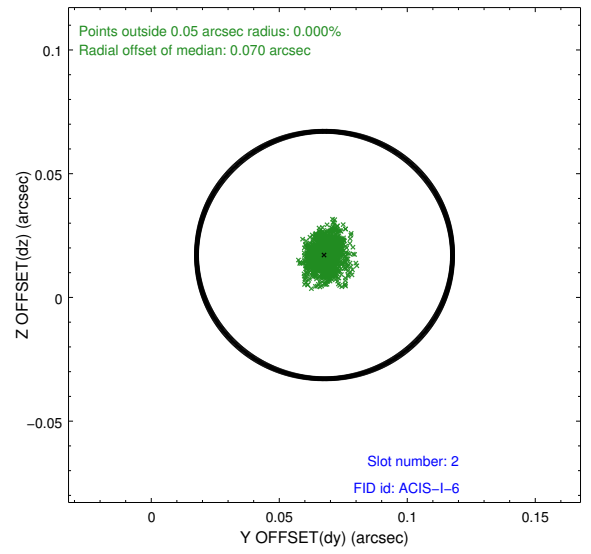
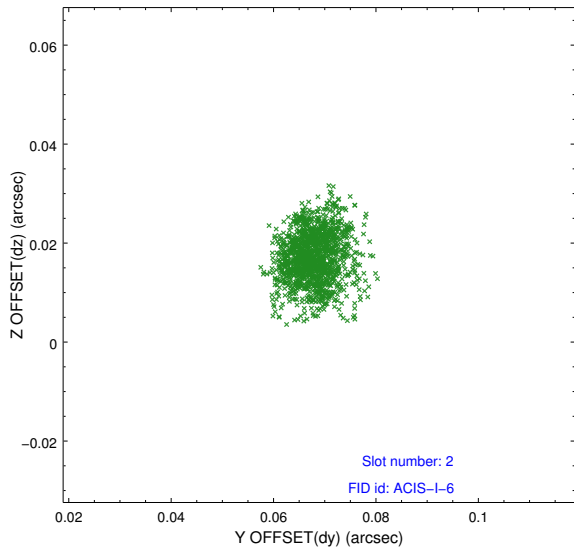
### 2.5.1 Slot 0



## 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)	2013.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.812799

## A.2 Comments