

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 15799 - L2 Version 1  
Chandra X-Ray Center

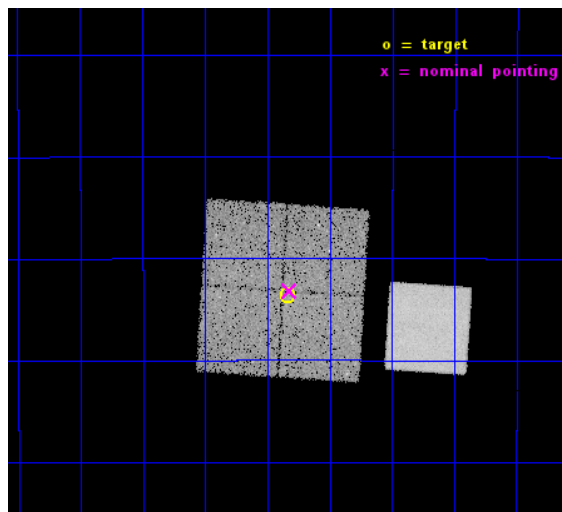
L2 Processing Date : Feb 1 2015

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# 1 Front

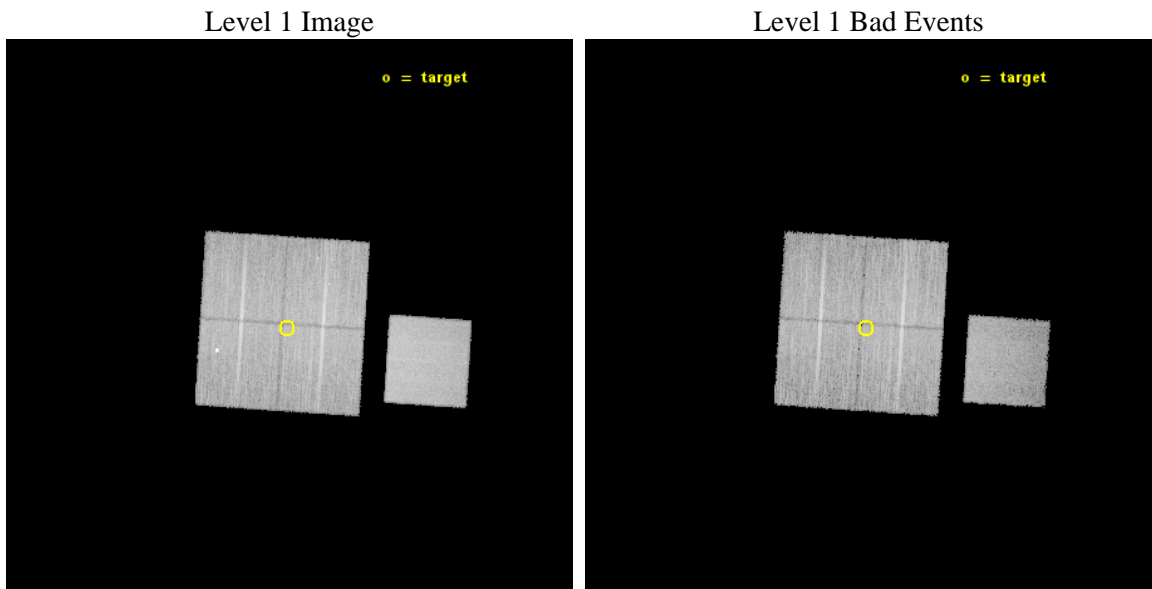
seq_num	401596	Sequence number
obs_id	15799	Observation id
title	Confirmation of the Symbiotic Nature of CXOGBS J173620.2-293338	Pr
observer	Dr Robert Hynes	Principal investigator
object	CXOGBS J173620.2-293338	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.084167	Observer's specified target RA [deg]
dec_targ	-29.560639	Observer's specified target Dec [deg]
ra_nom	264.08081081472	Nominal RA [deg]
dec_nom	-29.553007628737	Nominal Dec [deg]
roll_nom	93.679607455919	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25106.859153152	Sum of GTIs [s]
livetime	24778.819554915	Livetime [s]
ontime0	25110.000193238	Sum of GTIs [s]
ontime1	25110.000193238	Sum of GTIs [s]
ontime2	25110.000193238	Sum of GTIs [s]
ontime3	25106.859153152	Sum of GTIs [s]
ontime7	25110.000193238	Sum of GTIs [s]
l2events	113340	Number of level 2 events



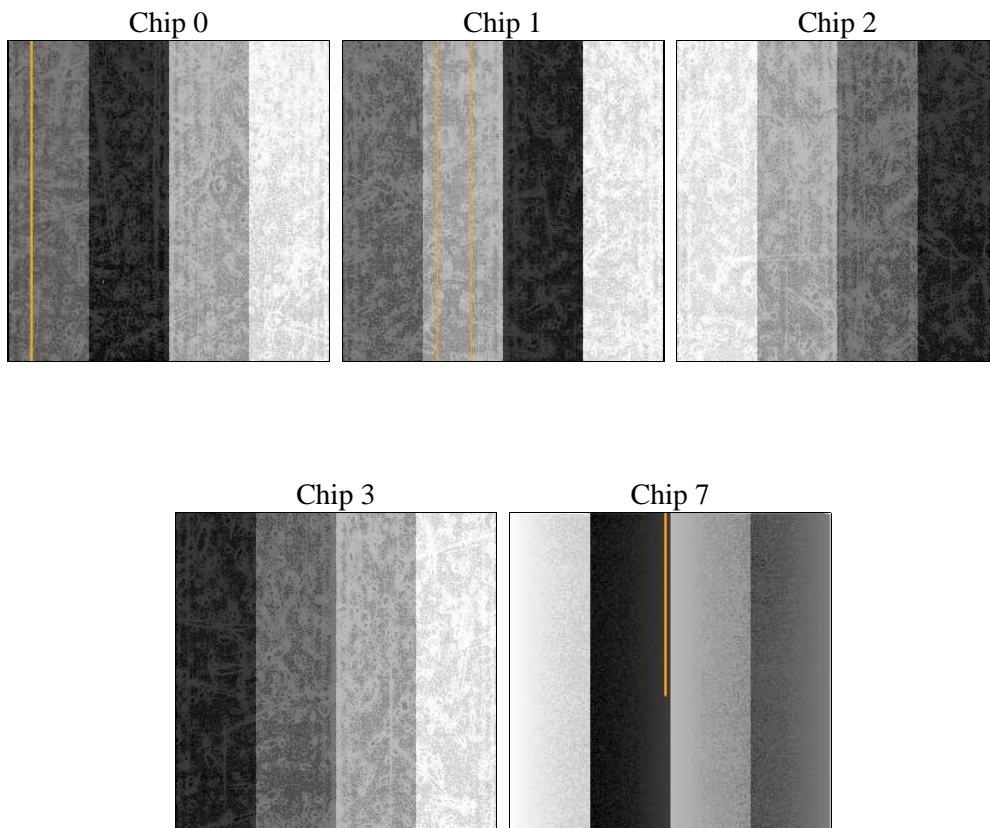
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	25106.859153152	Sum of GTIs [s]
caldbver	4.6.6	&#160	ontime0	25110.000193238	Sum of GTIs [s]
date	2015-02-01T18:42:36	Date and time of file creation	ontime1	25110.000193238	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25110.000193238	Sum of GTIs [s]
			ontime3	25106.859153152	Sum of GTIs [s]
			ontime7	25110.000193238	Sum of GTIs [s]
			l1events	551105	Number of level 1 events

### 2.1.4 Events

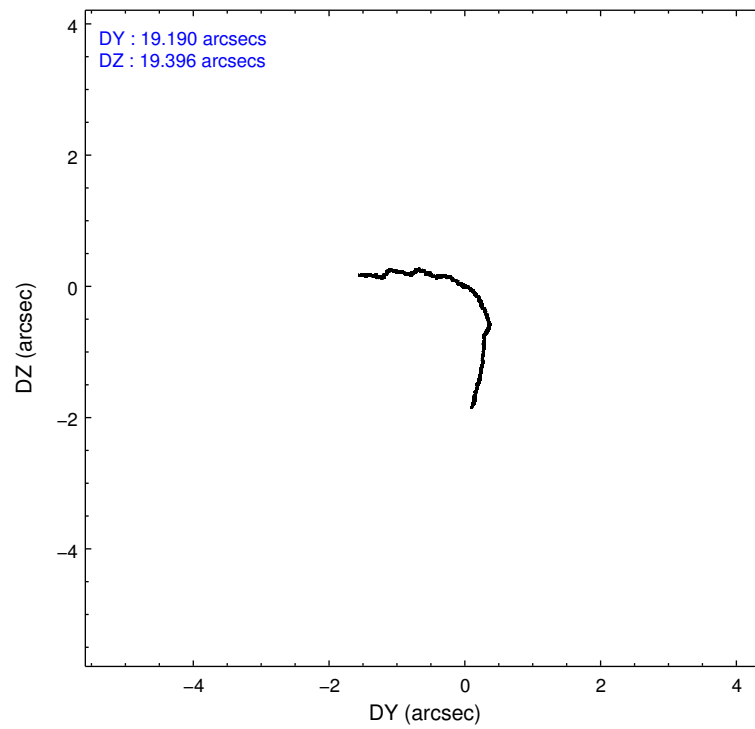
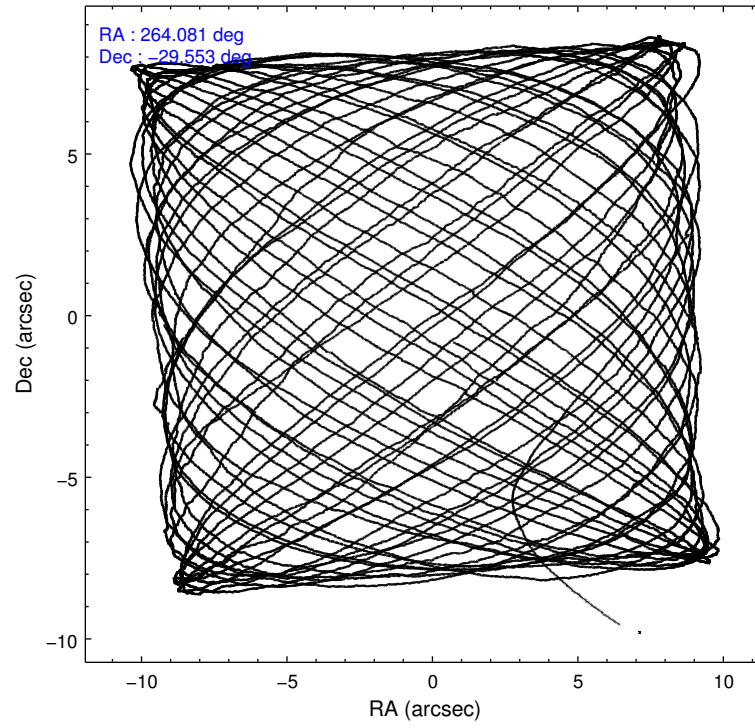
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	100133	101642	112980	107202	129148
rejected events	84689	84329	97380	92019	66275
rejected %	84%	82%	86%	85%	51%

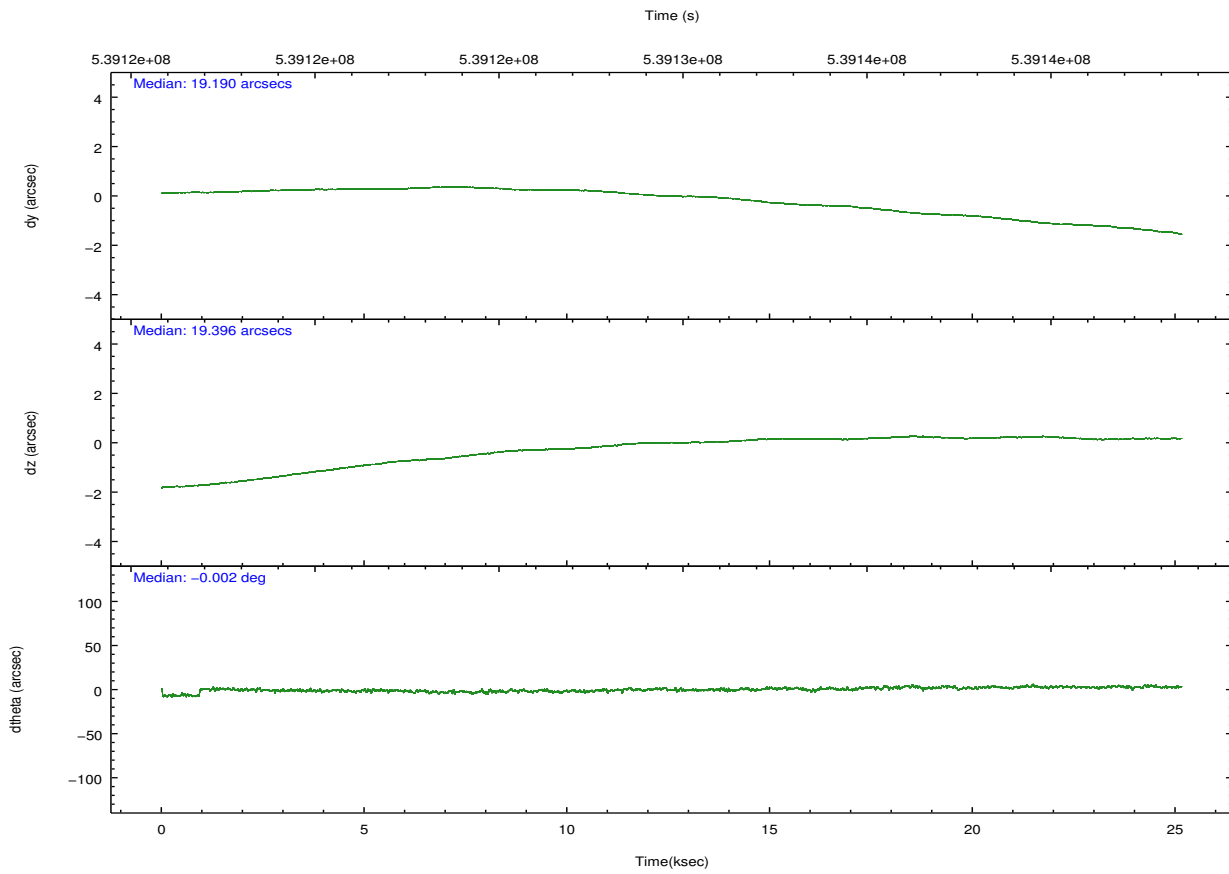
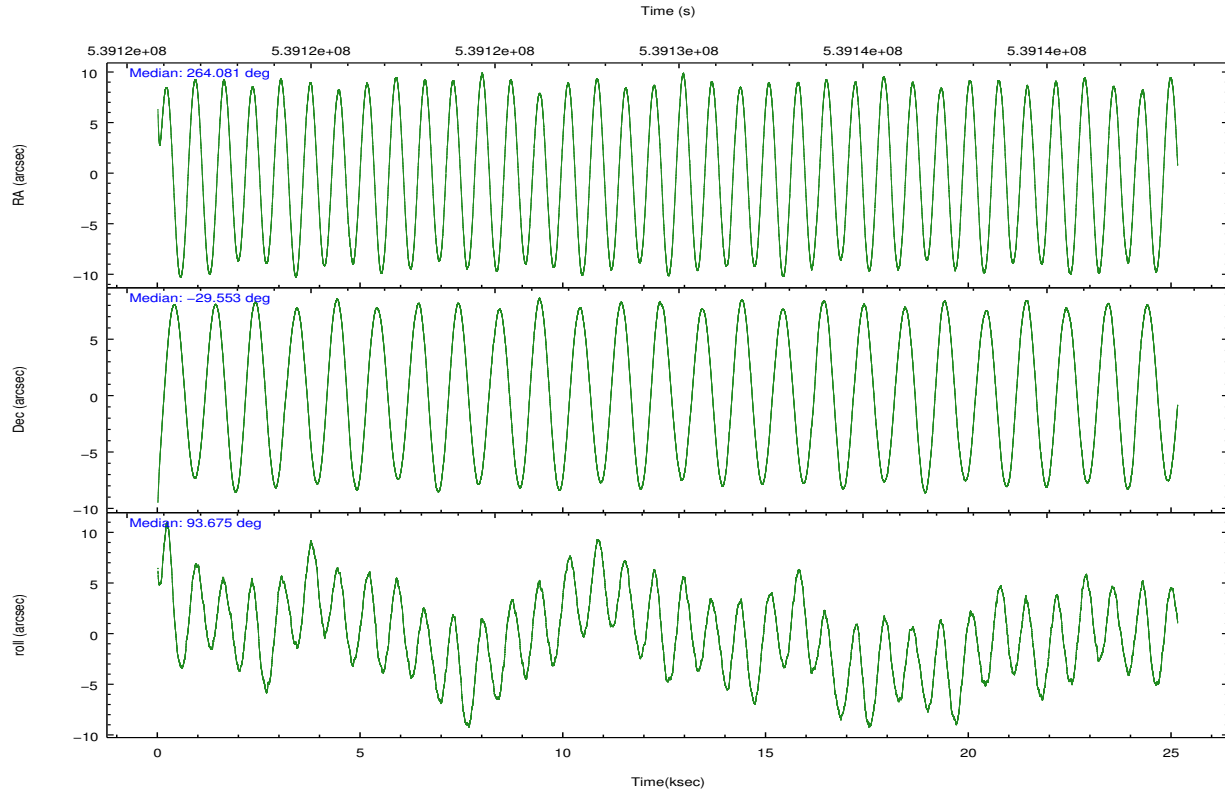
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6561	8009	7100	6841	6710
	6%	7%	6%	6%	5%
grade 1 events	66	67	69	81	172
	0%	0%	0%	0%	0%
grade 2 events	3523	3453	3376	3085	13733
	3%	3%	2%	2%	10%
grade 3 events	1418	1468	1323	1372	5455
	1%	1%	1%	1%	4%
grade 4 events	1335	1443	1379	1321	5309
	1%	1%	1%	1%	4%
grade 5 events	4355	4571	3996	4922	13138
	4%	4%	3%	4%	10%
grade 6 events	2607	2944	2425	2565	31675
	2%	2%	2%	2%	24%
grade 7 events	80268	79687	93312	87015	52956
	80%	78%	82%	81%	41%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	264.098488	264.080810814725	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.575912	-29.55300762873709	CCD I3 on	Y	Y
[deg] Pointing Roll	93.479648	93.67960745591921	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5899487761303	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.002504226799430853	CCD S4 on	N	N
[s] Observation start time (MET)	539117284.184000	539116045.60037	CCD S5 on	N	N
Observation start date	2015-01-31T18:46:57	2015-01-31T18:27:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539142284.184000	539143281.3894	On-chip summing requested	N	N
Observation end date	2015-02-01T01:43:37	2015-02-01T02:01:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





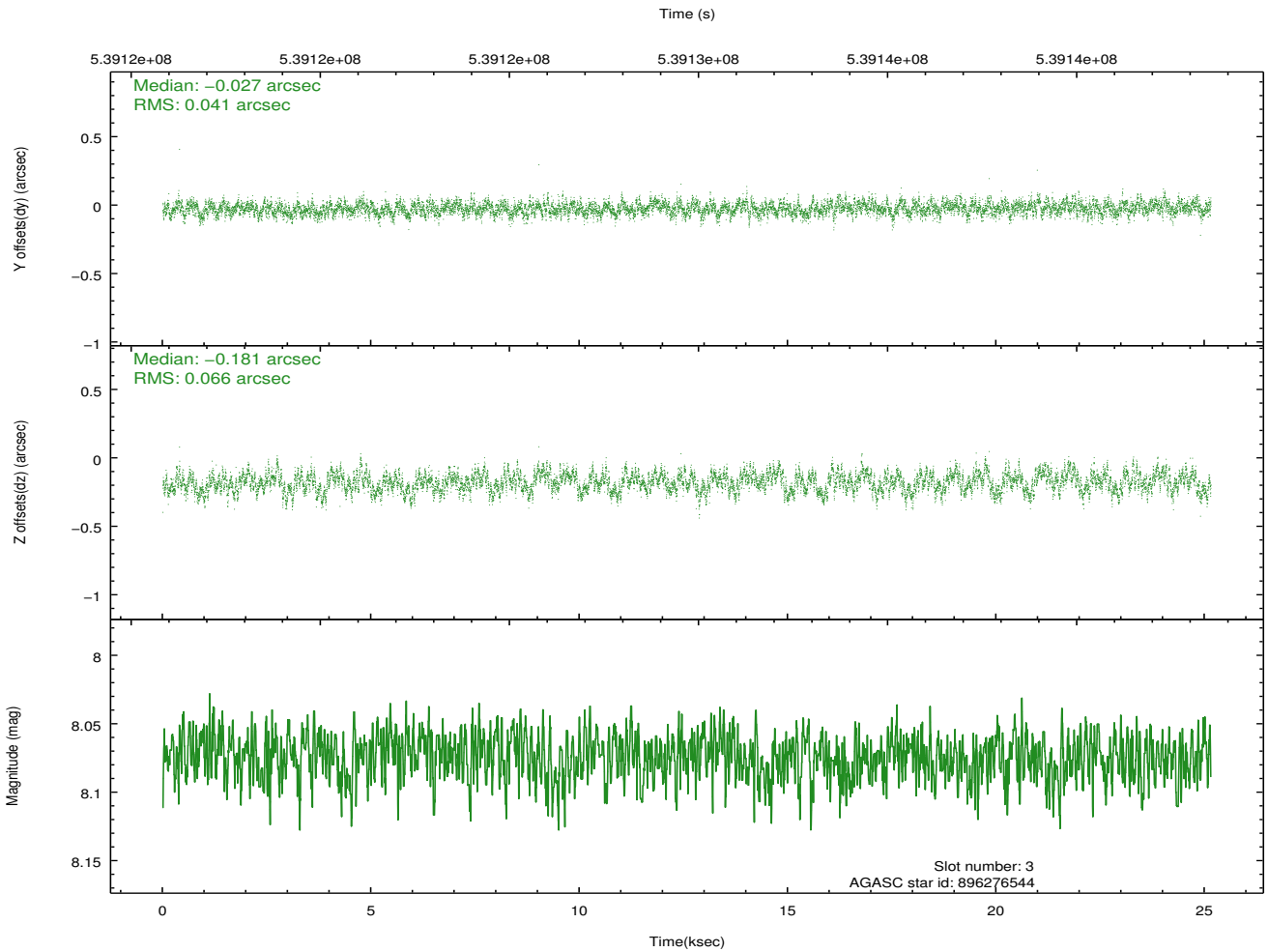
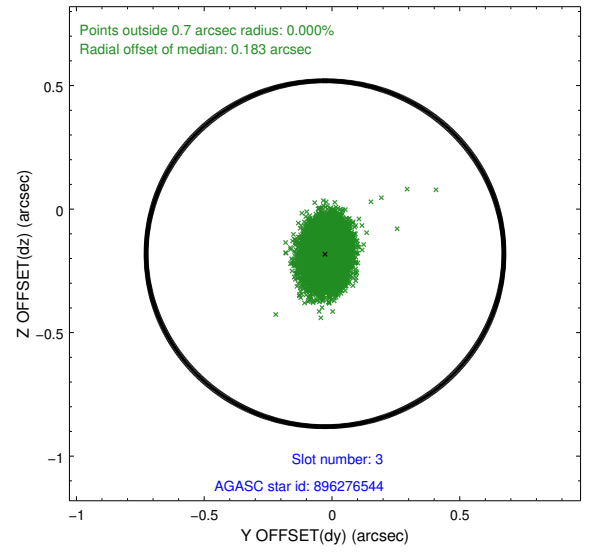
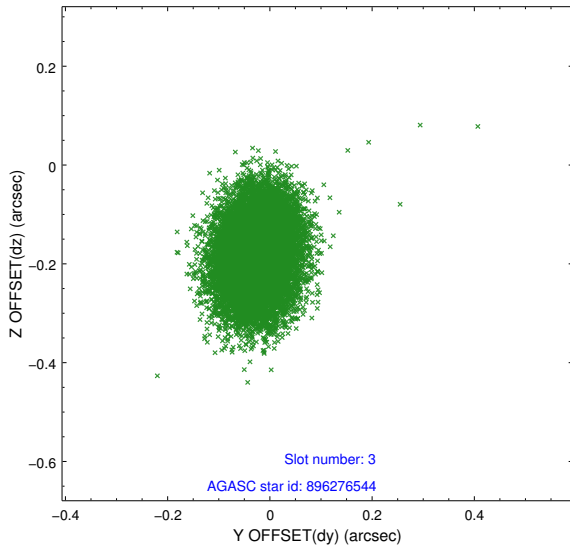
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	6134	-0.072	0.034	0.011	0.024	0.000000	0.000000	920.33	-842.70
1	FID		ACIS-I-2	7.05	6133	-0.208	-0.125	0.013	0.029	0.000000	0.000000	-773.84	-849.35
2	FID		ACIS-I-4	7.08	6134	0.181	0.158	0.011	0.027	0.000000	0.000000	2140.43	1057.16
3	GUIDE	used	896276544	8.07	12269	-0.027	-0.181	0.083	0.136	263.666616	-29.255819	1230.12	1284.06
4	GUIDE	used	896278088	7.59	12268	-0.132	-0.360	0.088	0.142	263.476198	-29.223388	1380.25	1874.67
5	GUIDE	used	896278192	8.68	12264	-0.271	-0.110	0.110	0.173	263.596121	-29.333327	963.92	1521.05
6	GUIDE	used	896401864	7.87	12265	0.534	0.691	0.086	0.139	264.861768	-29.959752	-1530.70	-2291.25
7	GUIDE	used	896403072	8.35	12263	-0.093	-0.034	0.076	0.124	263.956439	-28.943077	2300.85	308.38

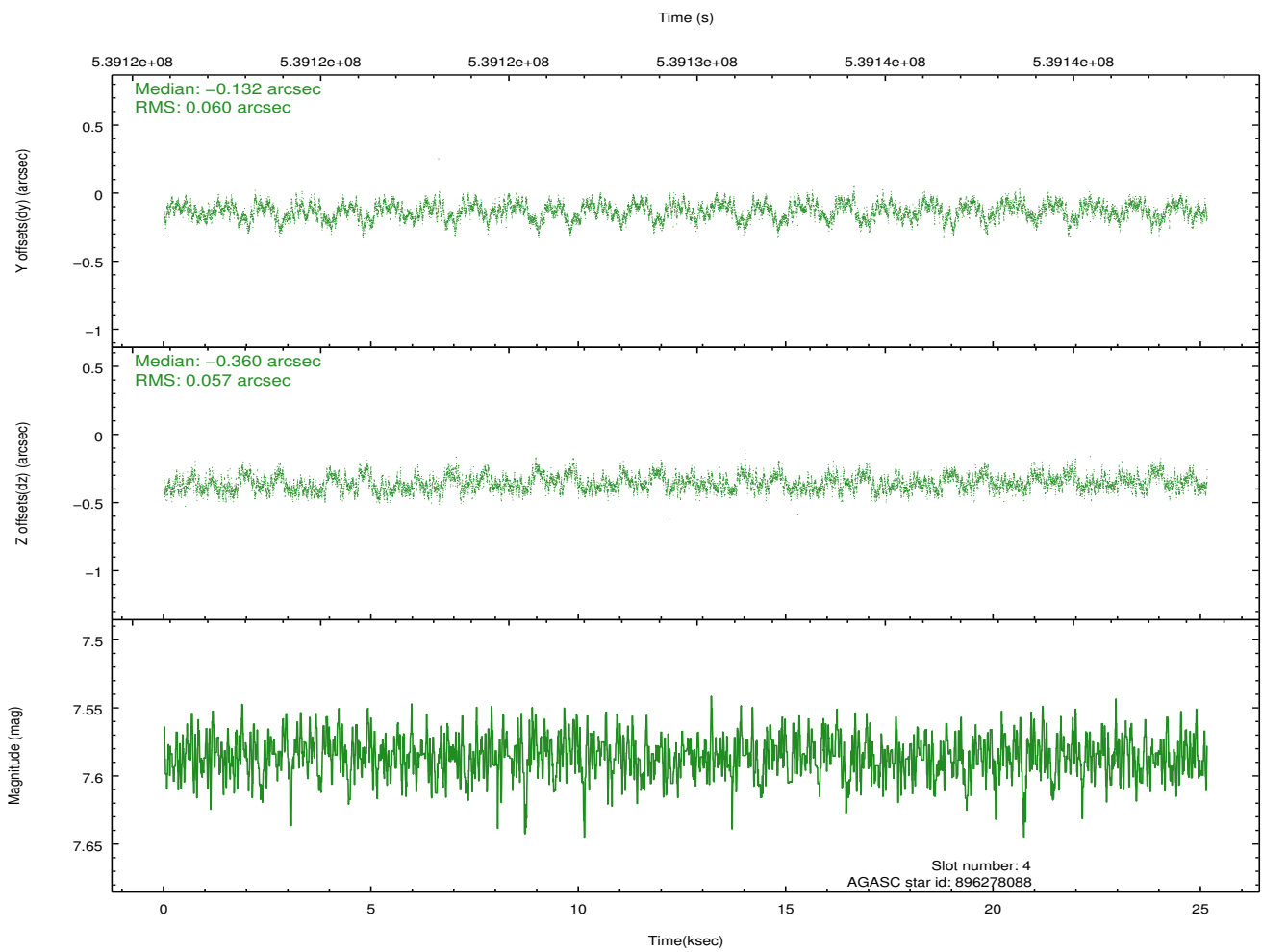
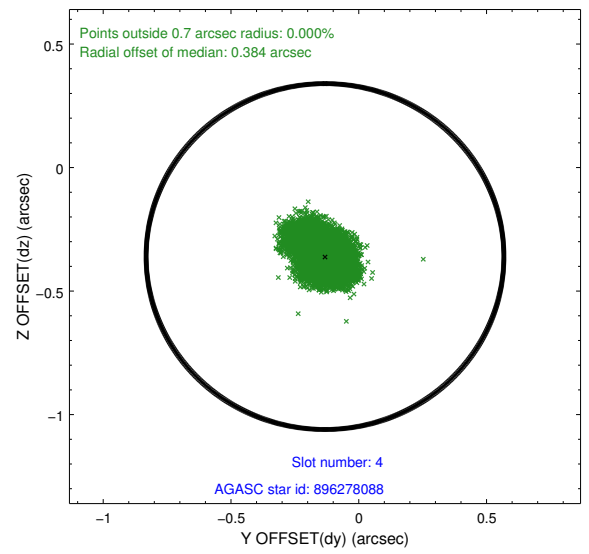
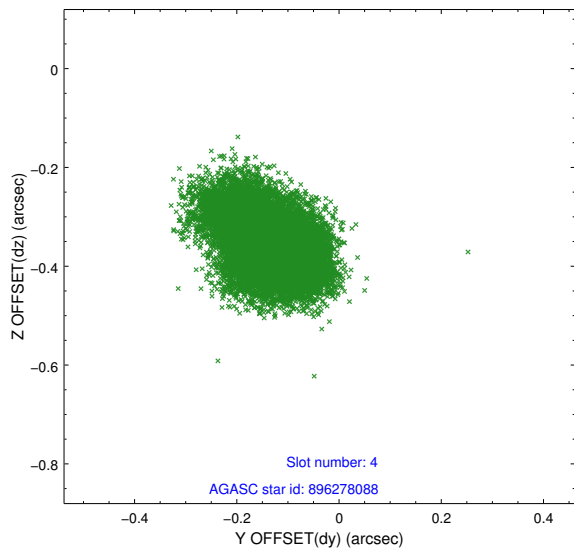
∞

## 2.4 Star Slots

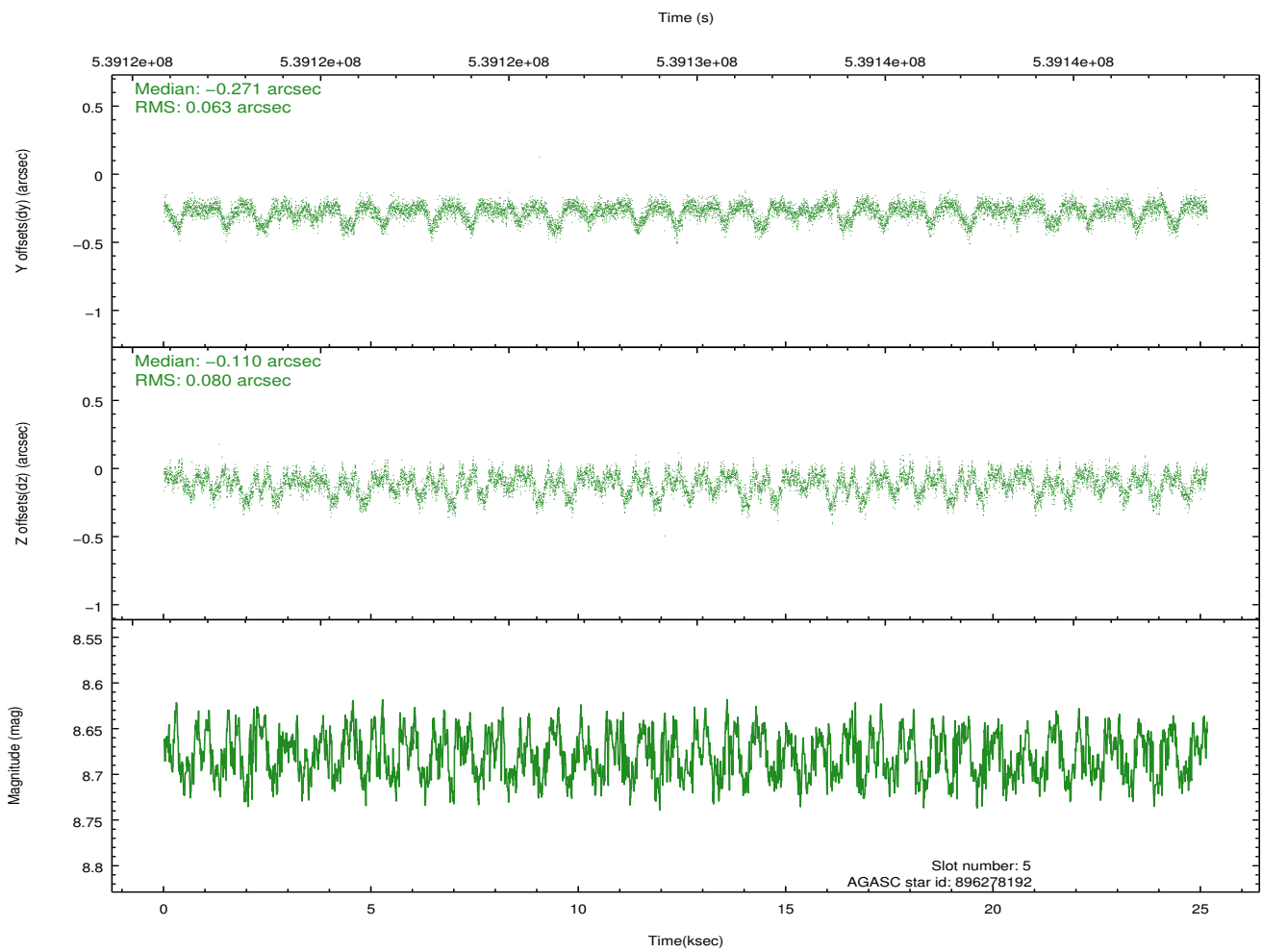
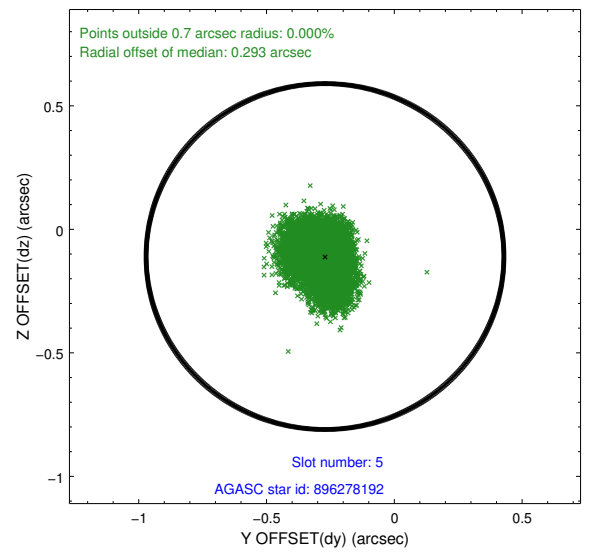
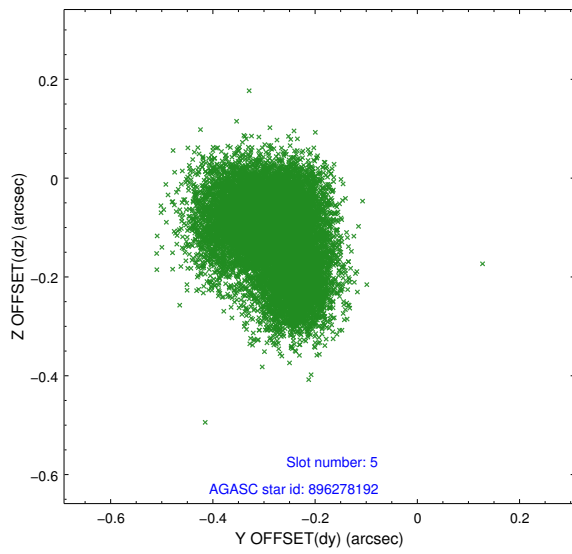
### 2.4.1 Slot 3



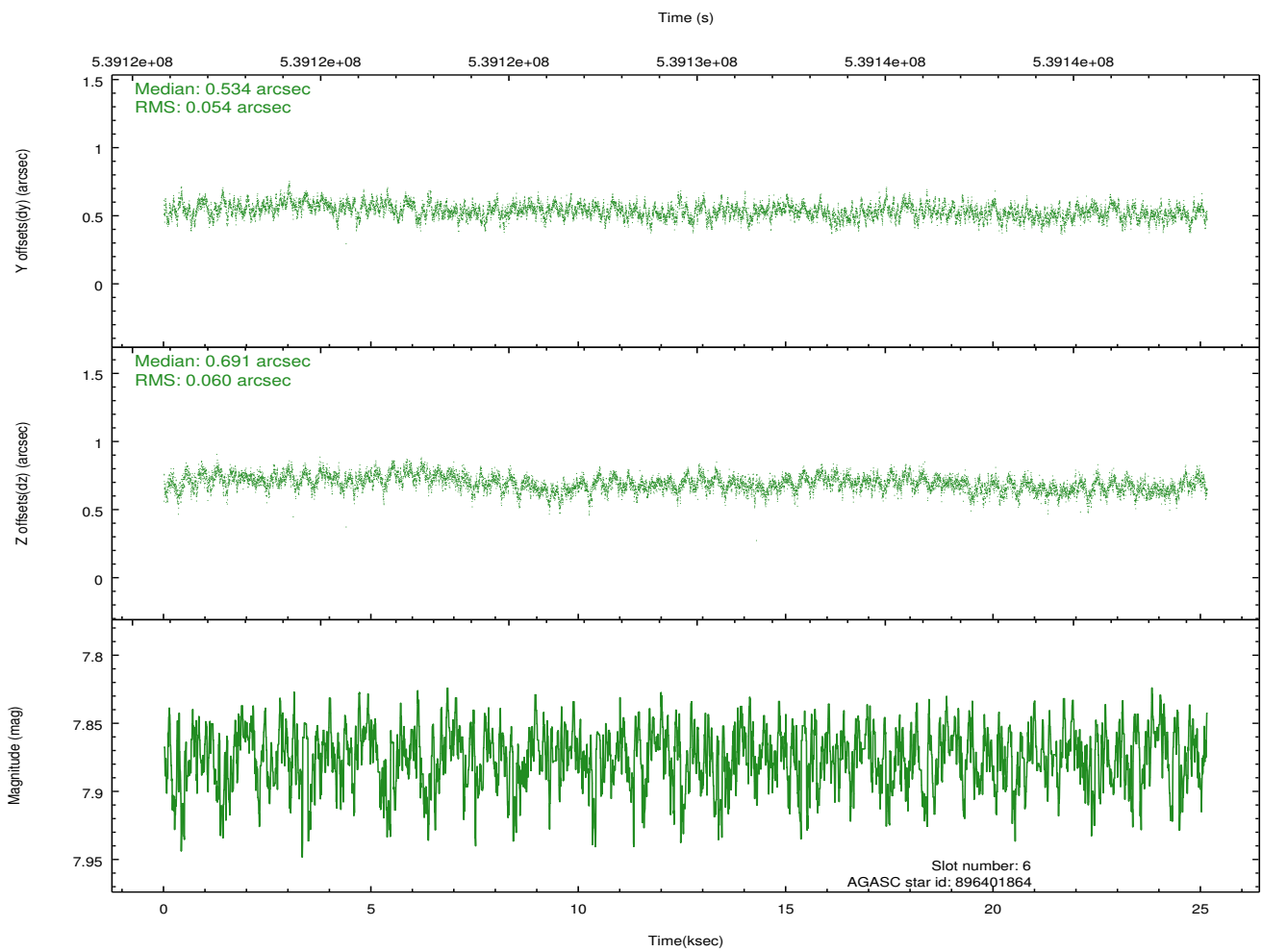
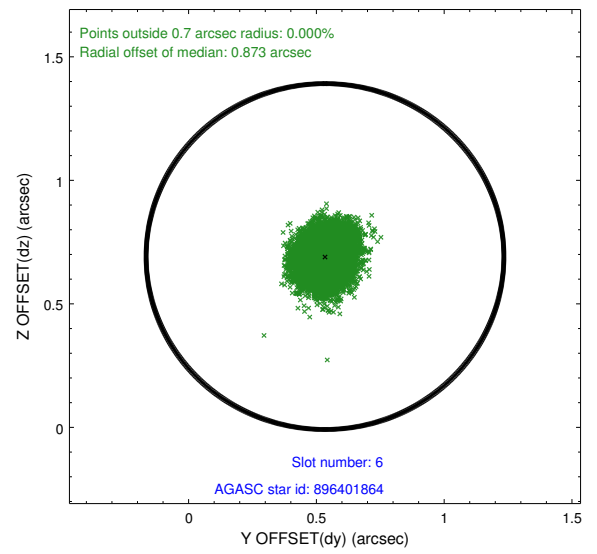
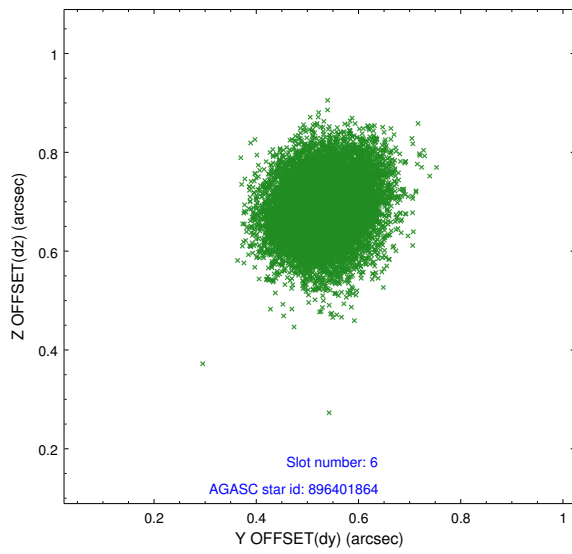
## 2.4.2 Slot 4



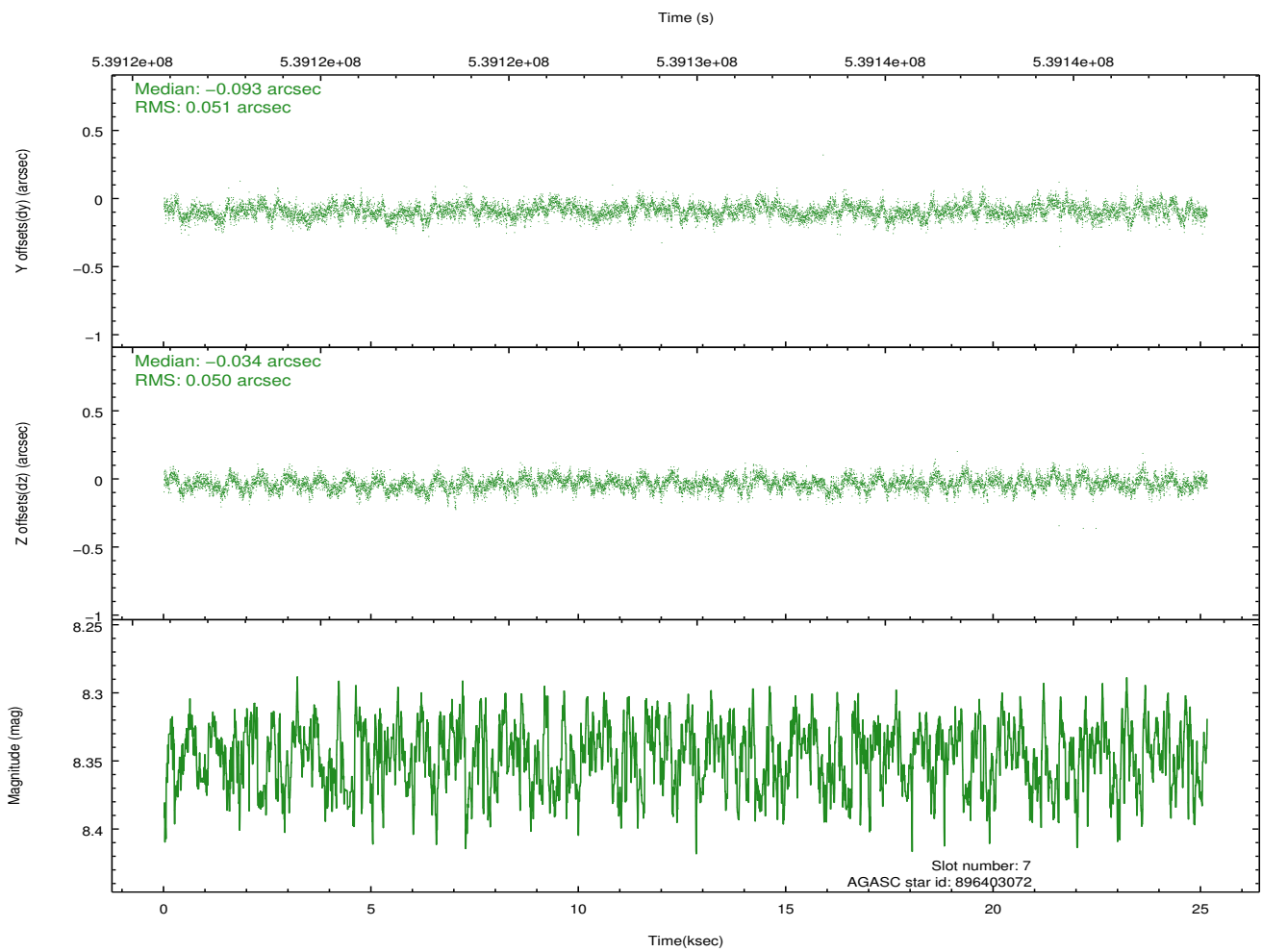
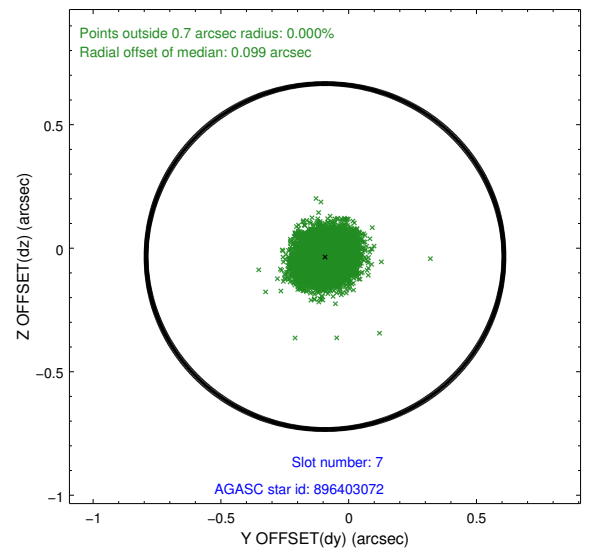
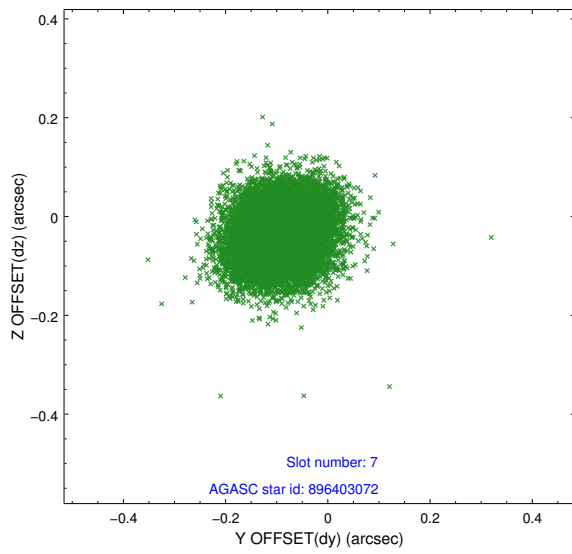
### 2.4.3 Slot 5



## 2.4.4 Slot 6

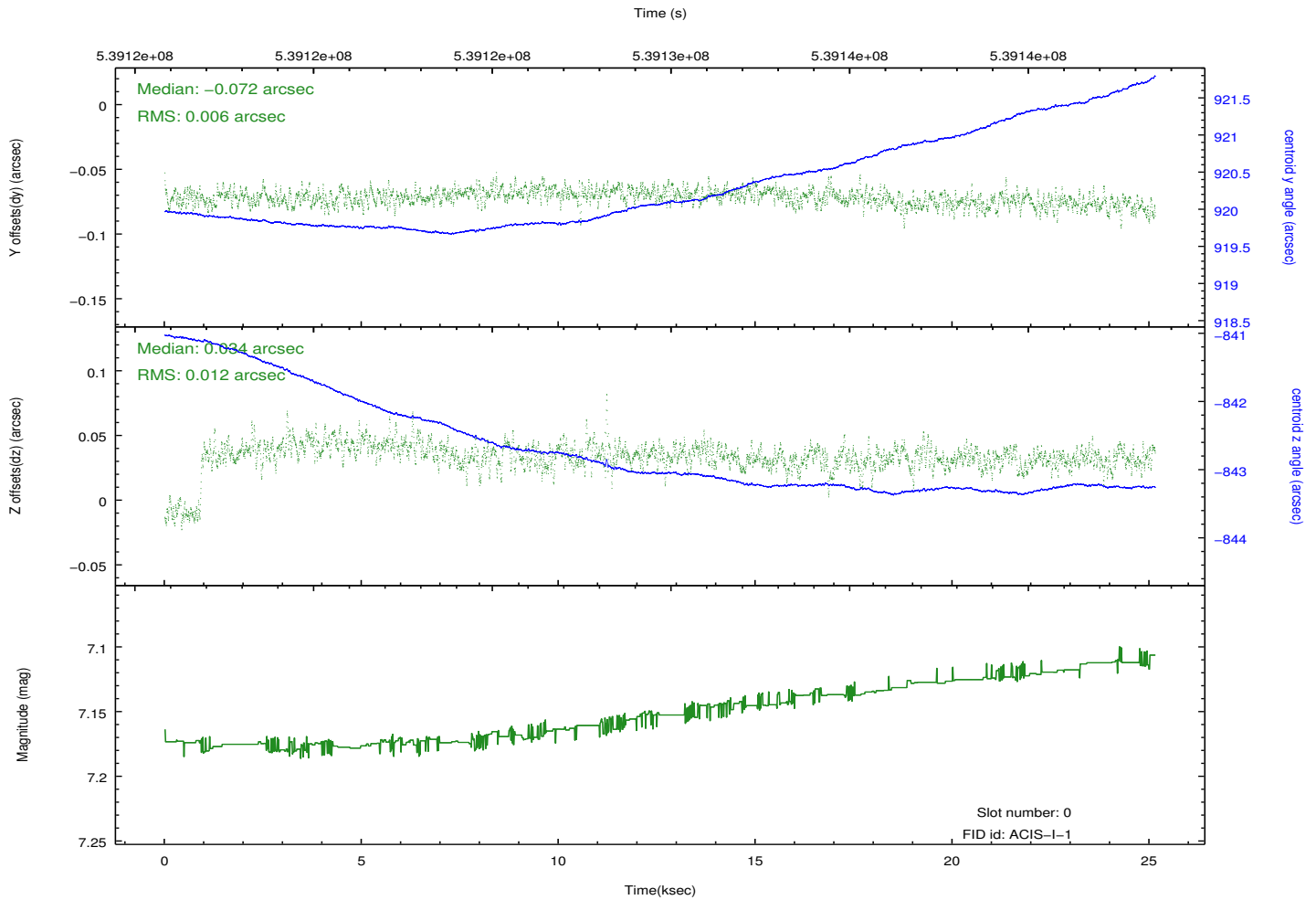
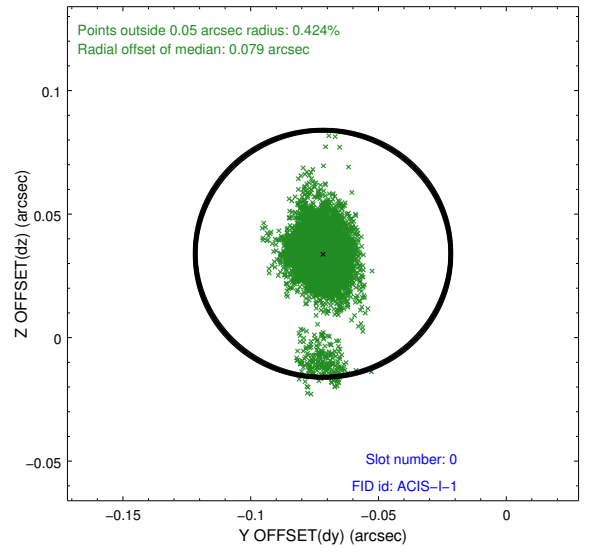
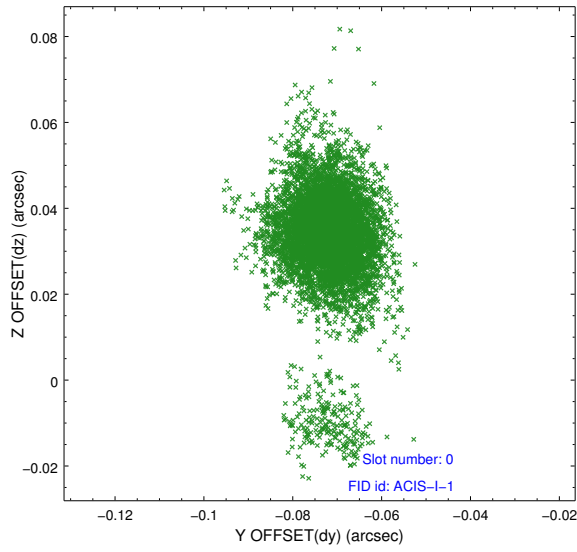


## 2.4.5 Slot 7

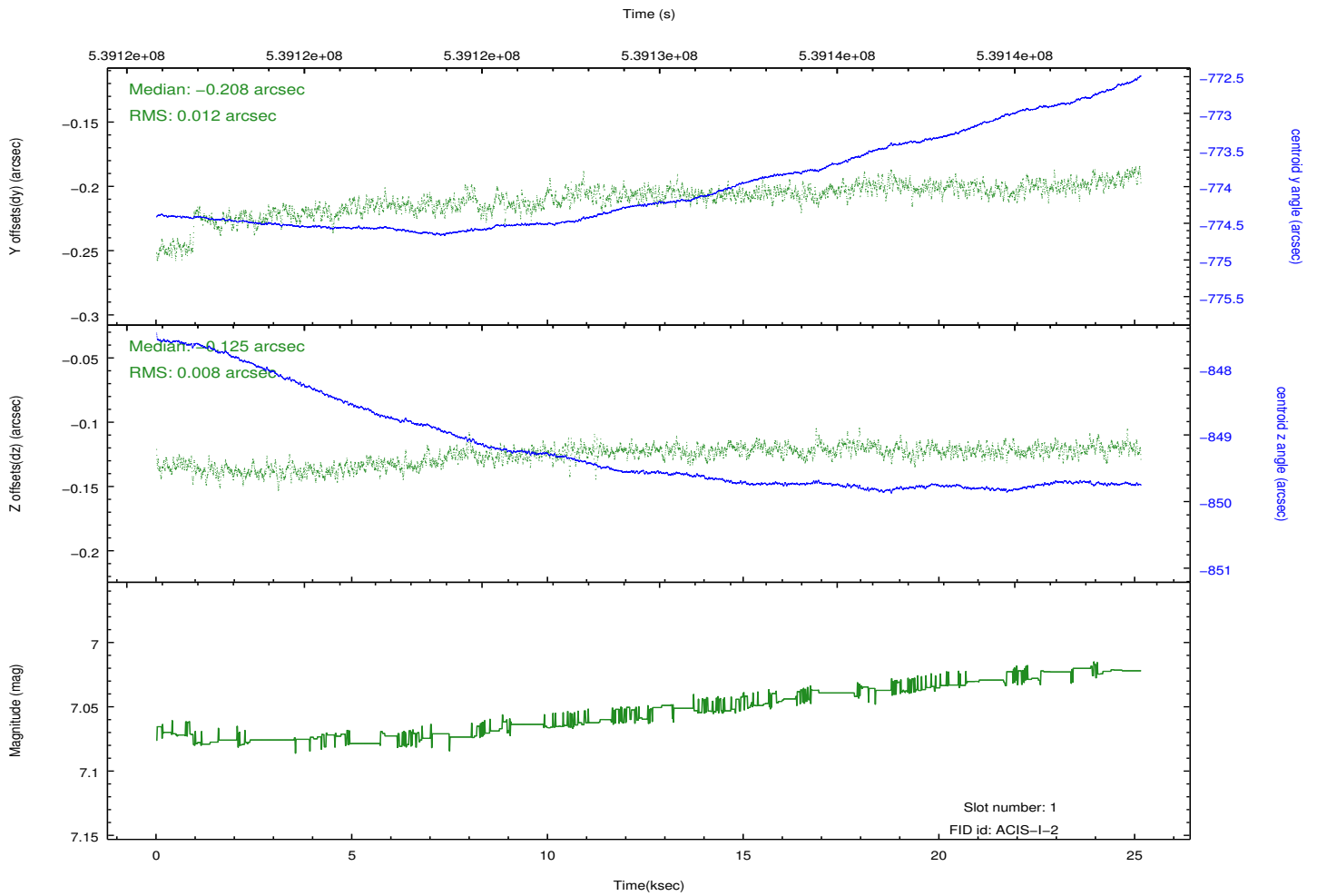
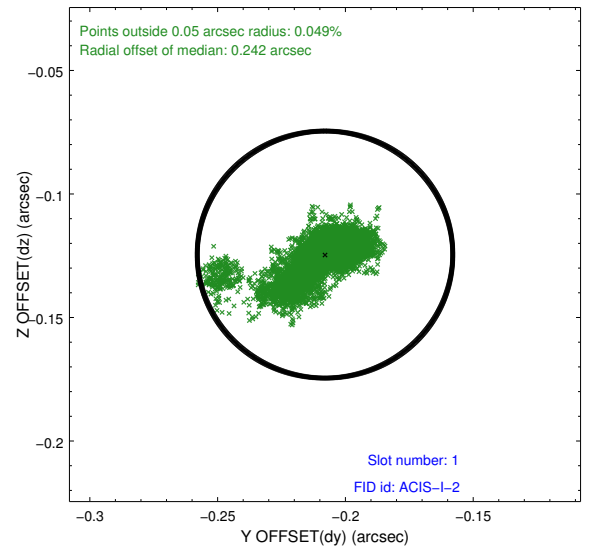
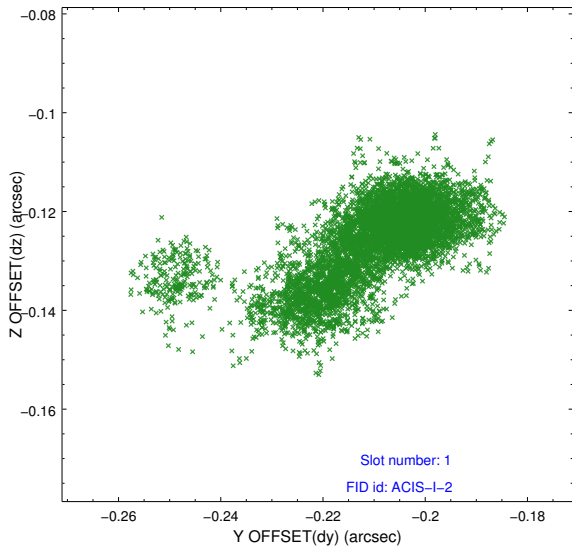


## 2.5 FID Slots

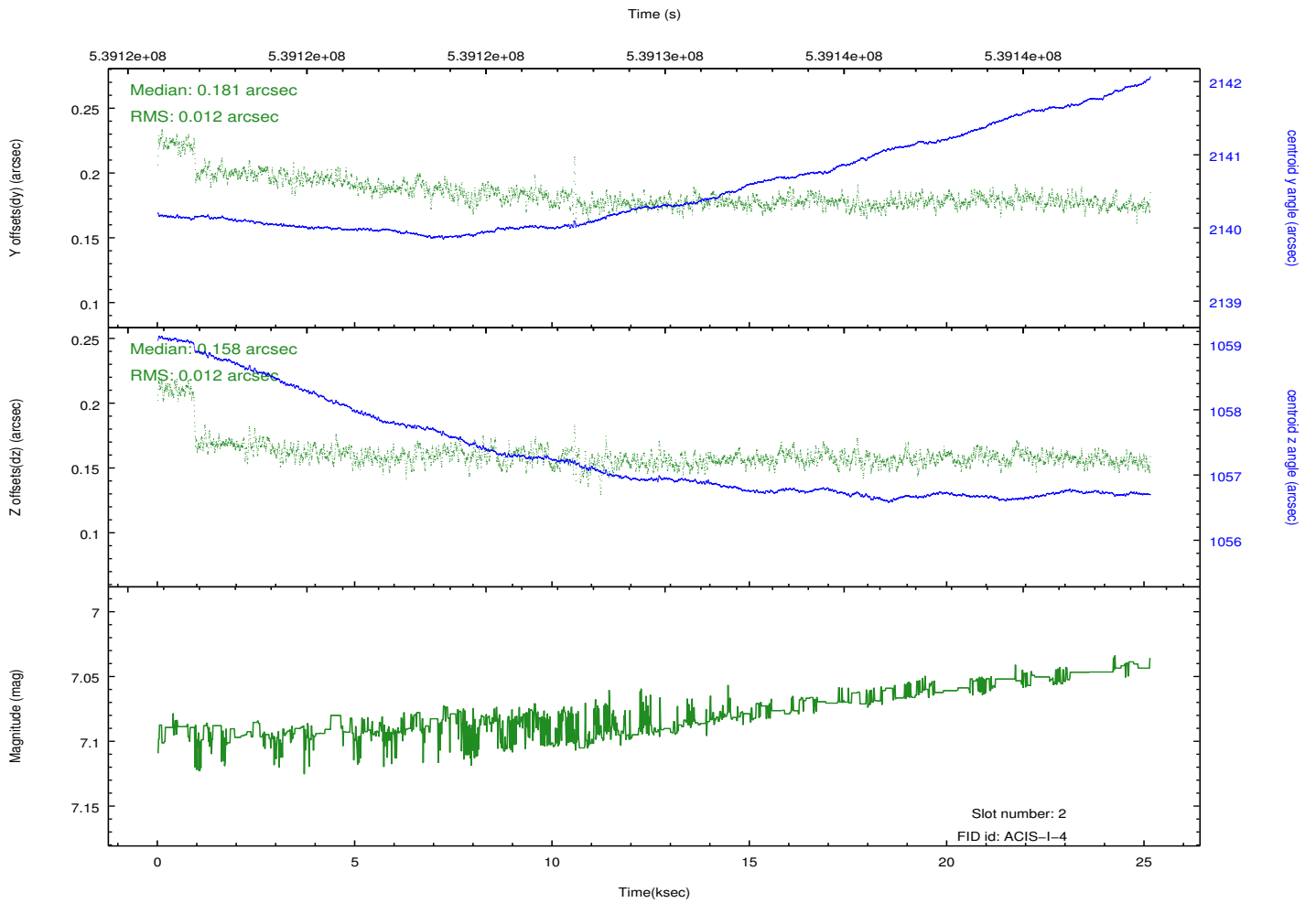
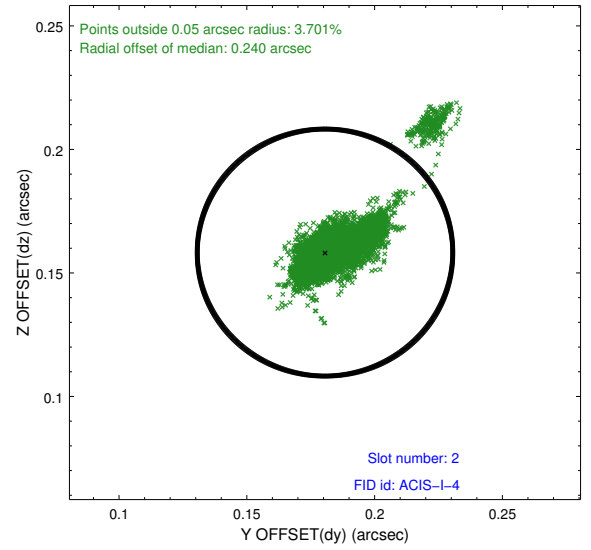
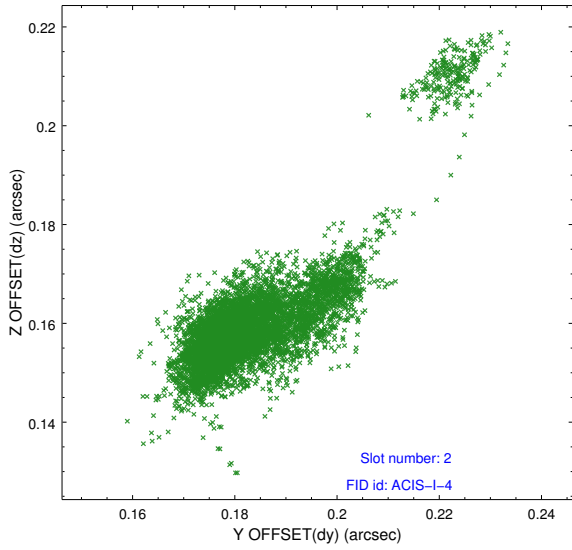
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.106859153152

### A.2 Comments