

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12130 - L2 Version 2  
Chandra X-Ray Center

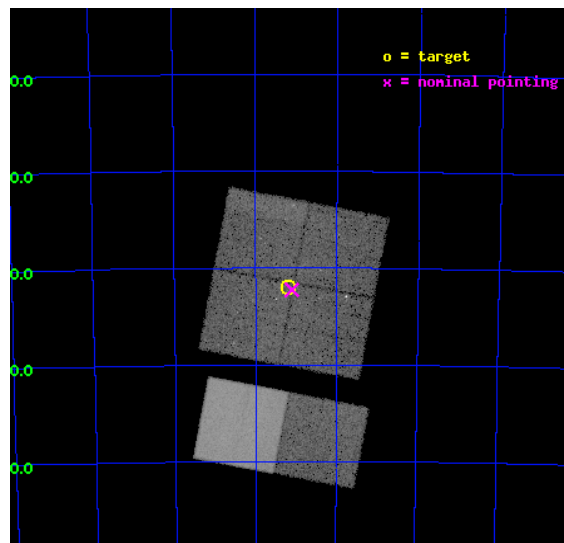
L2 Processing Date : Jun 23 2012

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# 1 Front

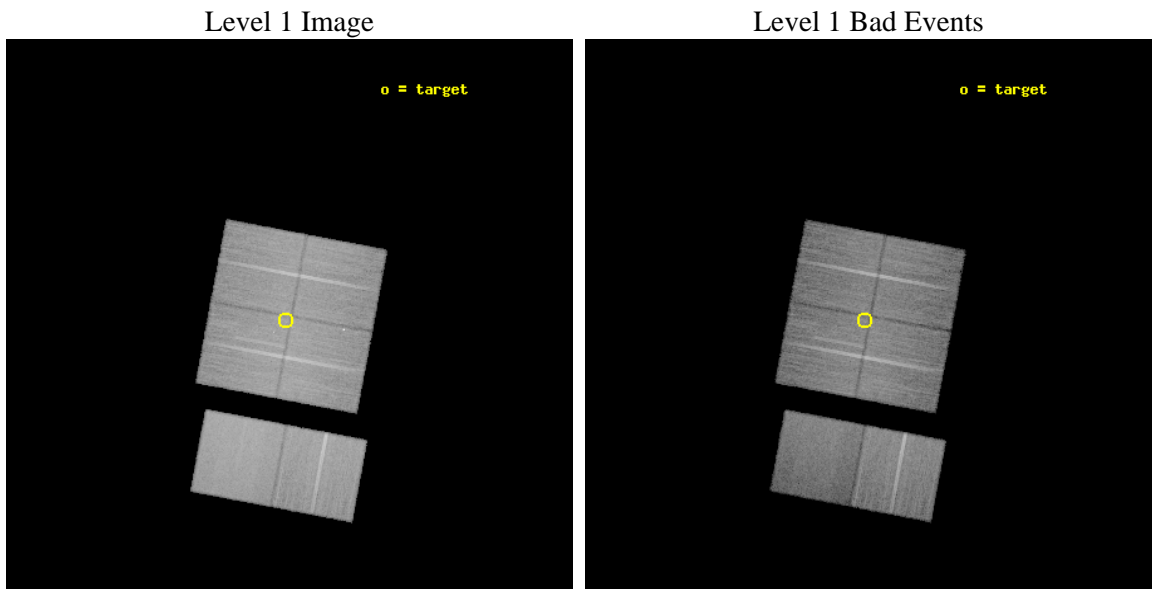
seq_num	200617	Sequence number
obs_id	12130	Observation id
title	Cosmic archaeology with Chandra: from a supergiant shell to young stellar objects in NGC 602	Proposal title
observer	Dr. Lidia Oskinova	Principal investigator
object	NGC 602	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	22.301667	Observer's specified target RA [deg]
dec_targ	-73.533806	Observer's specified target Dec [deg]
ra_nom	22.276556245399	Nominal RA [deg]
dec_nom	-73.537610030368	Nominal Dec [deg]
roll_nom	190.68460585876	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25743.999904156	Sum of GTIs [s]
livetime	25418.013876194	Livetime [s]
ontime0	25743.999904156	Sum of GTIs [s]
ontime1	25740.758913875	Sum of GTIs [s]
ontime2	25743.999904156	Sum of GTIs [s]
ontime3	25743.999904156	Sum of GTIs [s]
ontime6	25740.758903921	Sum of GTIs [s]
ontime7	25743.999904156	Sum of GTIs [s]
l2events	195973	Number of level 2 events



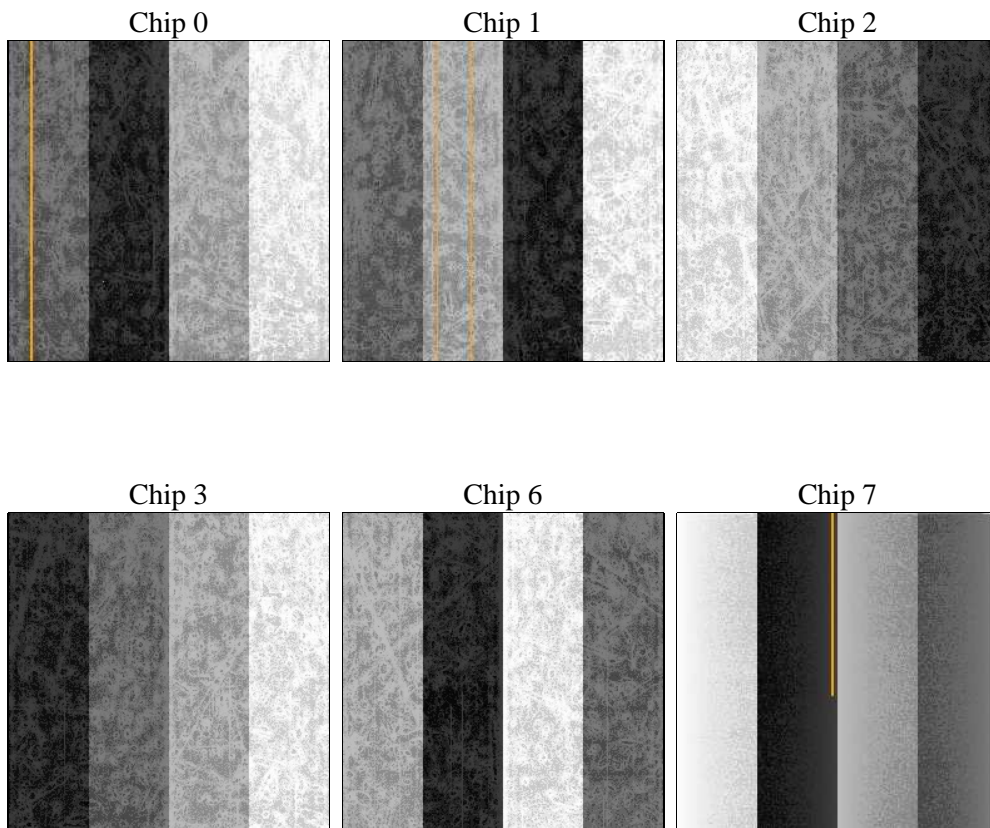
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25638.578000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	25743.999904156	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	25743.999904156	Sum of GTIs [s]
date	2012-06-23T18:58:24	Date and time of file creation	ontime1	25740.758913875	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25743.999904156	Sum of GTIs [s]
			ontime3	25743.999904156	Sum of GTIs [s]
			ontime6	25740.758903921	Sum of GTIs [s]
			ontime7	25743.999904156	Sum of GTIs [s]
			l1events	1260132	Number of level 1 events

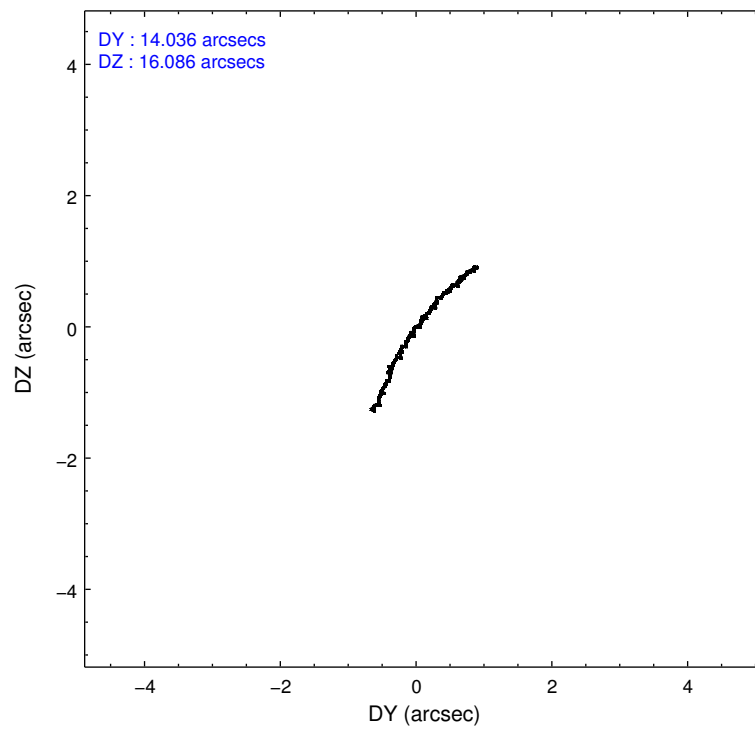
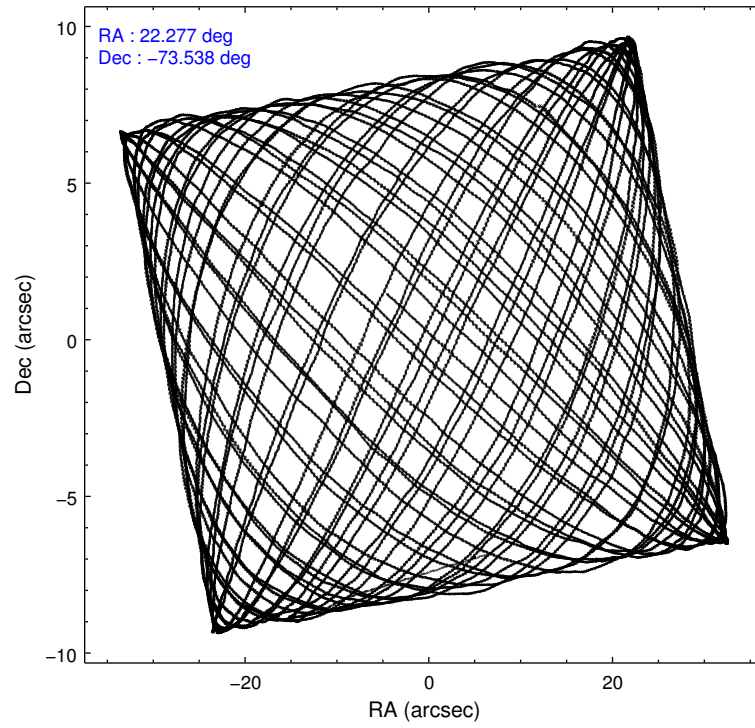
### 2.1.4 Events

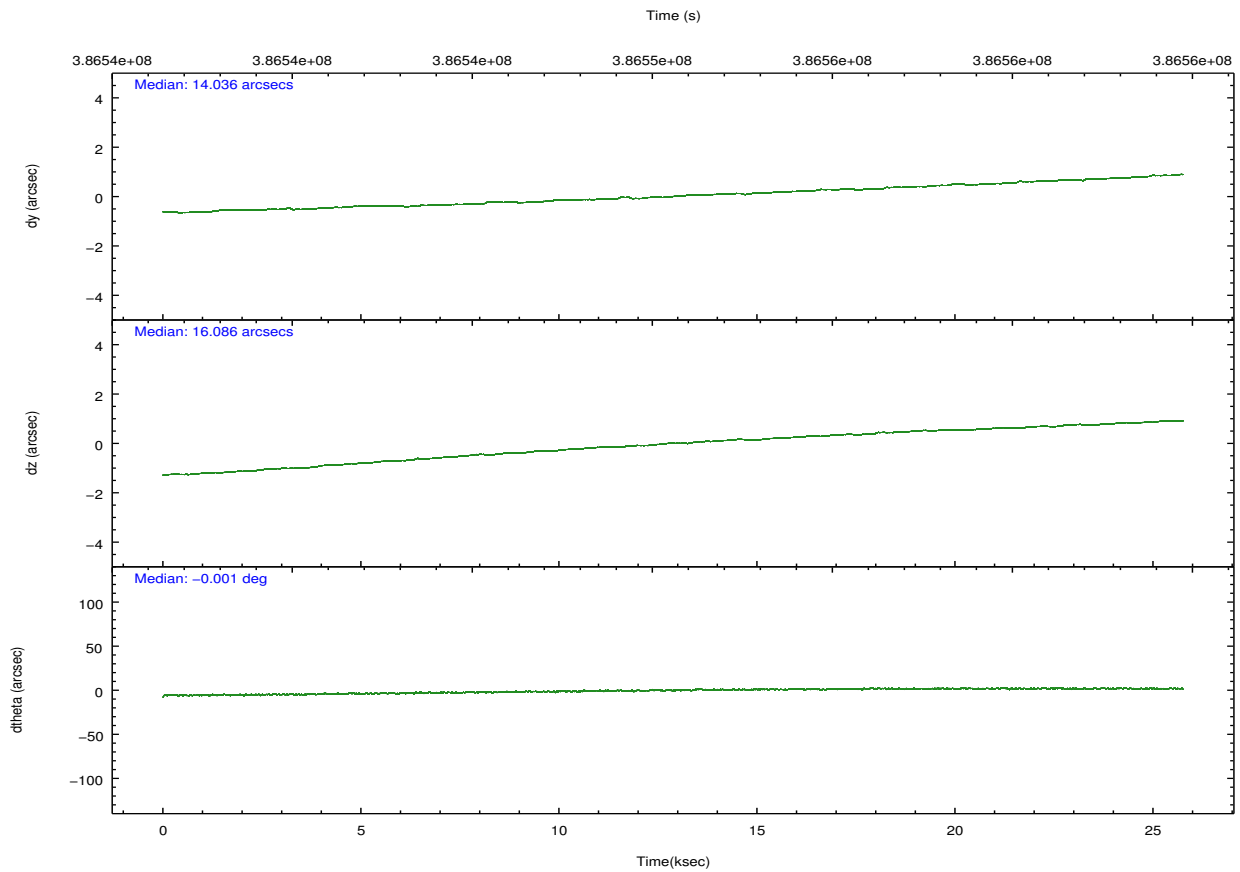
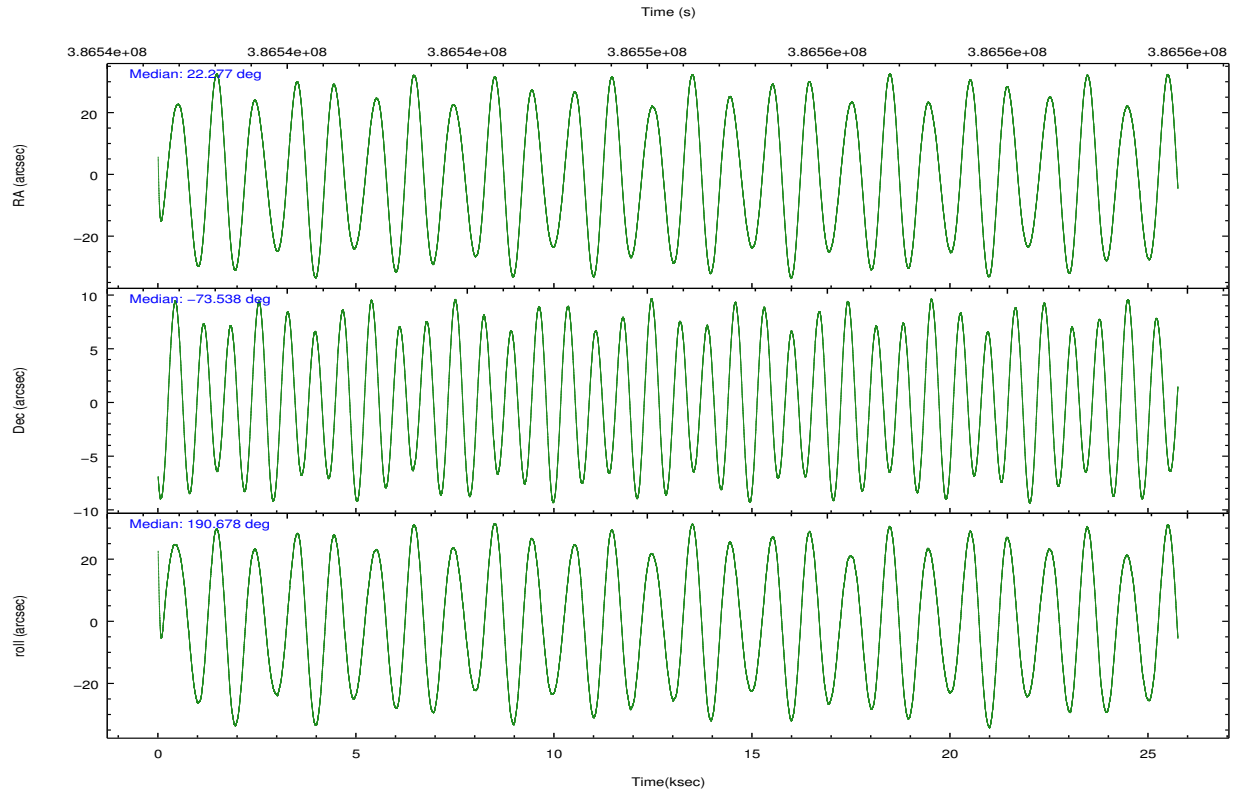
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	188638	192123	212997	202753	216374	247247	grade 0 events	7603	8878	8887	7629	7599	10239
rejected events	167572	168286	190653	182582	194352	139708		4%	4%	4%	3%	3%	4%
rejected %	88%	87%	89%	90%	89%	56%	grade 1 events	115	92	136	146	132	307
								0%	0%	0%	0%	0%	0%
							grade 2 events	5421	5816	5619	4683	5444	23088
								2%	3%	2%	2%	2%	9%
							grade 3 events	2393	2582	2353	2315	2419	10041
								1%	1%	1%	1%	1%	4%
							grade 4 events	2256	2531	2310	2323	2357	10004
								1%	1%	1%	1%	1%	4%
							grade 5 events	8110	8549	7734	9190	9406	25988
								4%	4%	3%	4%	4%	10%
							grade 6 events	4315	5067	4045	4069	5143	58693
								2%	2%	1%	2%	2%	23%
							grade 7 events	158425	158608	181913	172398	183874	108887
								83%	82%	85%	85%	84%	44%

## 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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	22.349735	22.27655624539909	CCD I2 on	Y	Y
[deg] Pointing Dec	-73.519582	-73.53761003036848	CCD I3 on	Y	Y
[deg] Pointing Roll	190.546095	190.6846058587562	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	386537815.184000	386536251.32181	CCD S5 on	N	N
Observation start date	2010-04-01T19:35:49	2010-04-01T19:10:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	386563453.184000	386563691.0857	On-chip summing requested	N	N
Observation end date	2010-04-02T02:43:07	2010-04-02T02:48:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



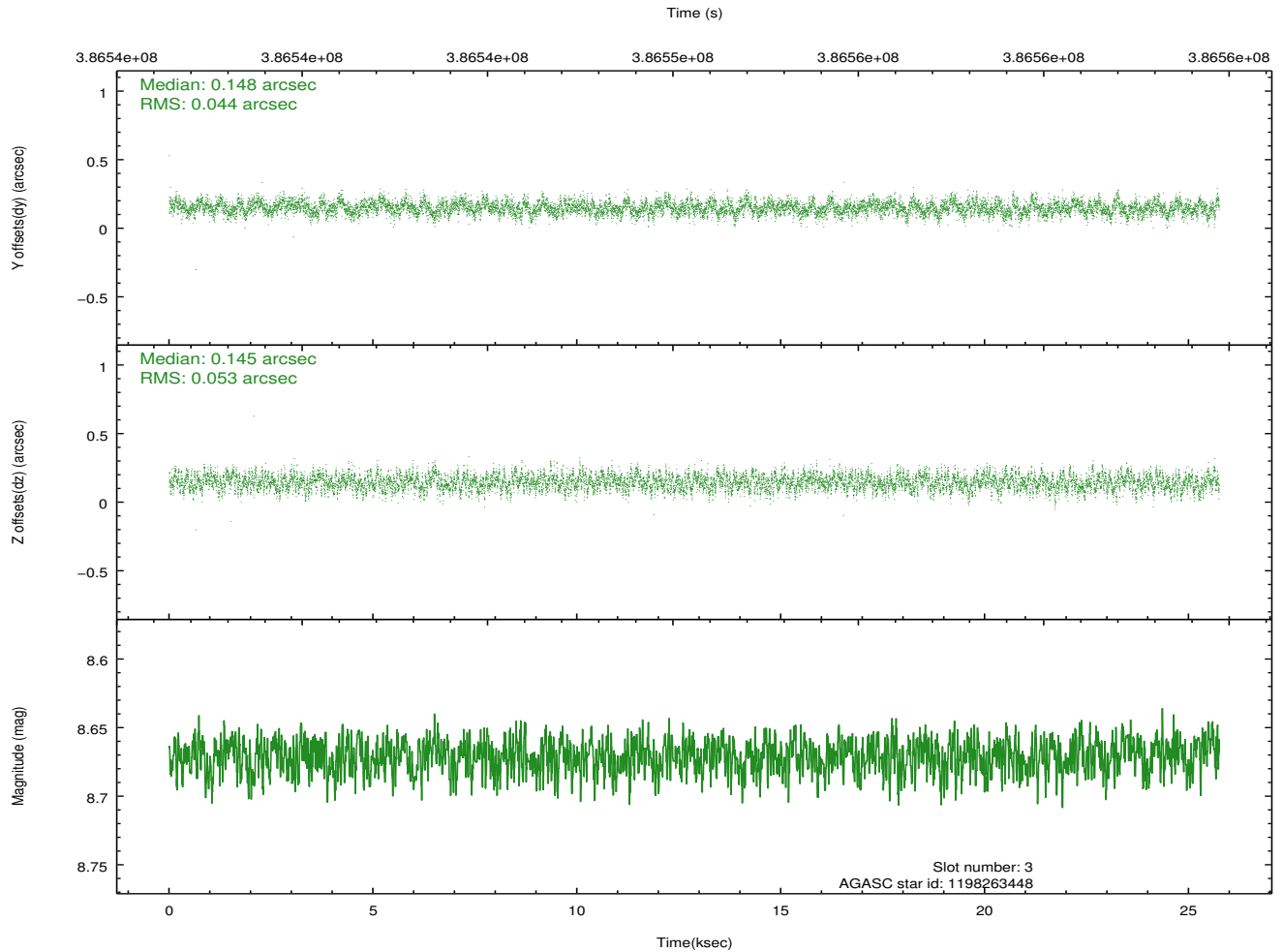
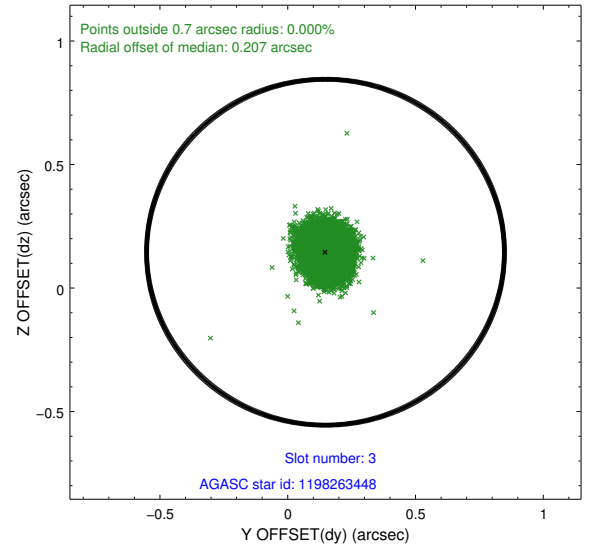
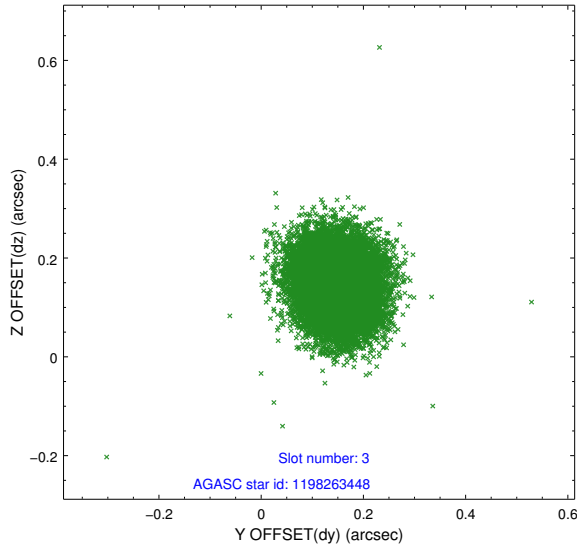


### Slot Statistics

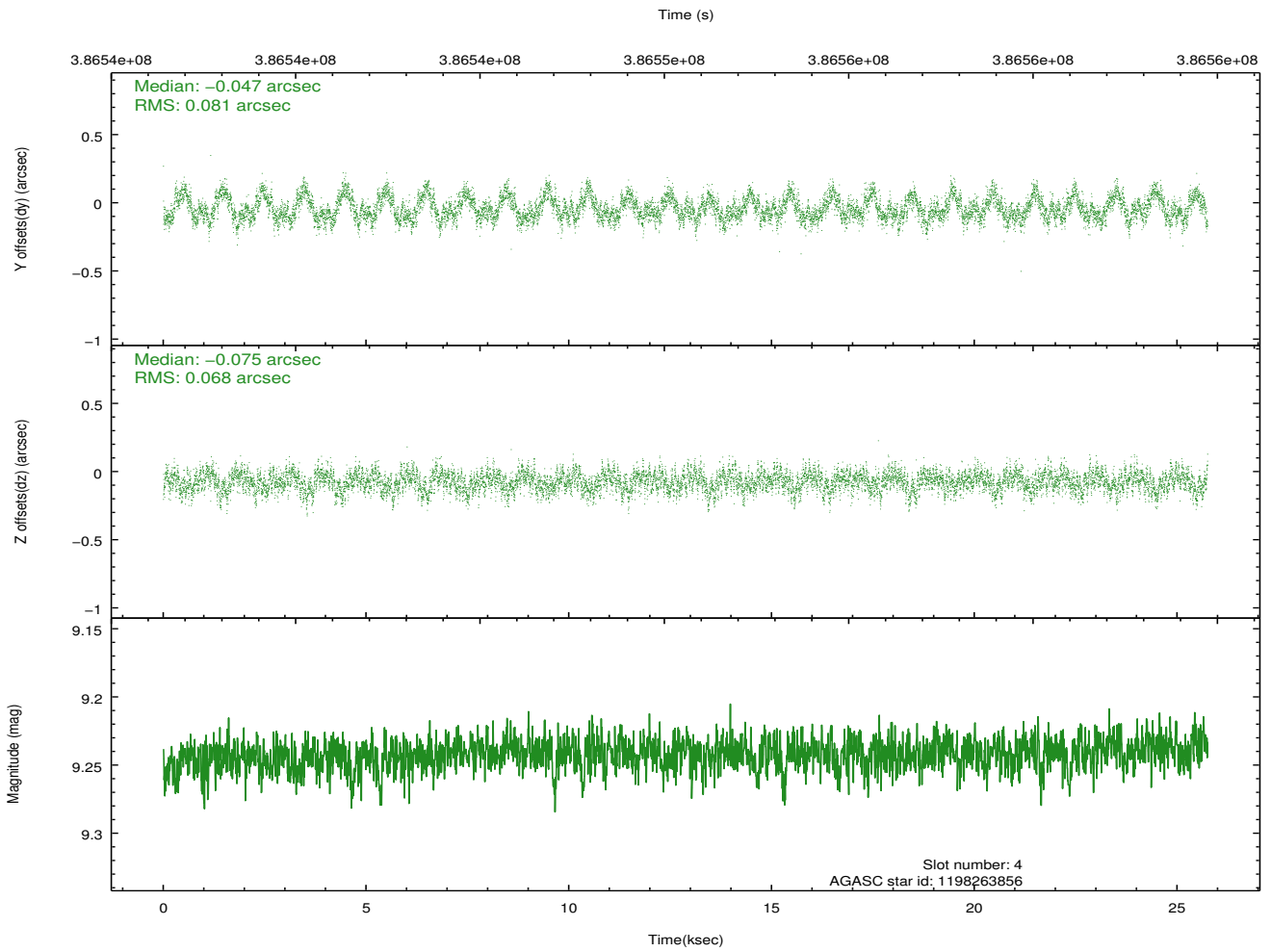
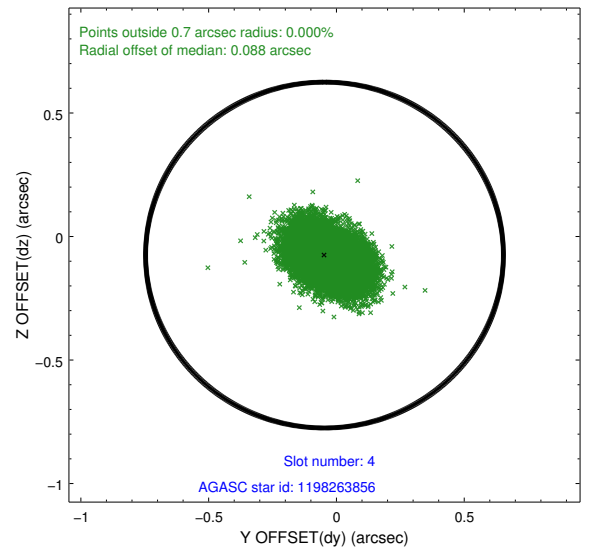
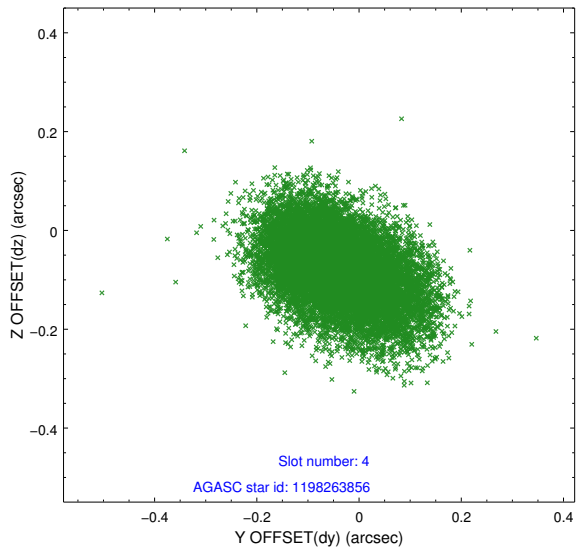
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	6281	0.072	-0.048	0.020	0.059	0.000000	0.000000	925.46	-839.67
1	FID	ACIS-I-5	7.01	6281	-0.233	0.063	0.017	0.034	0.000000	0.000000	-1822.87	1057.87
2	FID	ACIS-I-6	7.01	6281	0.073	0.052	0.013	0.023	0.000000	0.000000	390.91	1702.48
3	GUIDE	1198263448	8.67	12556	0.148	0.145	0.074	0.117	23.988893	-72.831877	-2160.56	-2091.95
4	GUIDE	1198263856	9.24	12548	-0.047	-0.075	0.113	0.183	23.344483	-73.858921	-753.62	1391.15
5	GUIDE	1198264032	7.99	12557	0.125	-0.018	0.073	0.115	22.563131	-73.173817	-445.31	-1182.21
6	GUIDE	1198269920	8.27	12555	-0.067	0.127	0.087	0.134	20.316466	-73.033728	1786.33	-2074.38
7	GUIDE	1198272400	9.16	12551	-0.158	-0.175	0.109	0.170	20.411923	-73.620598	2006.42	28.93

## 2.4 Star Slots

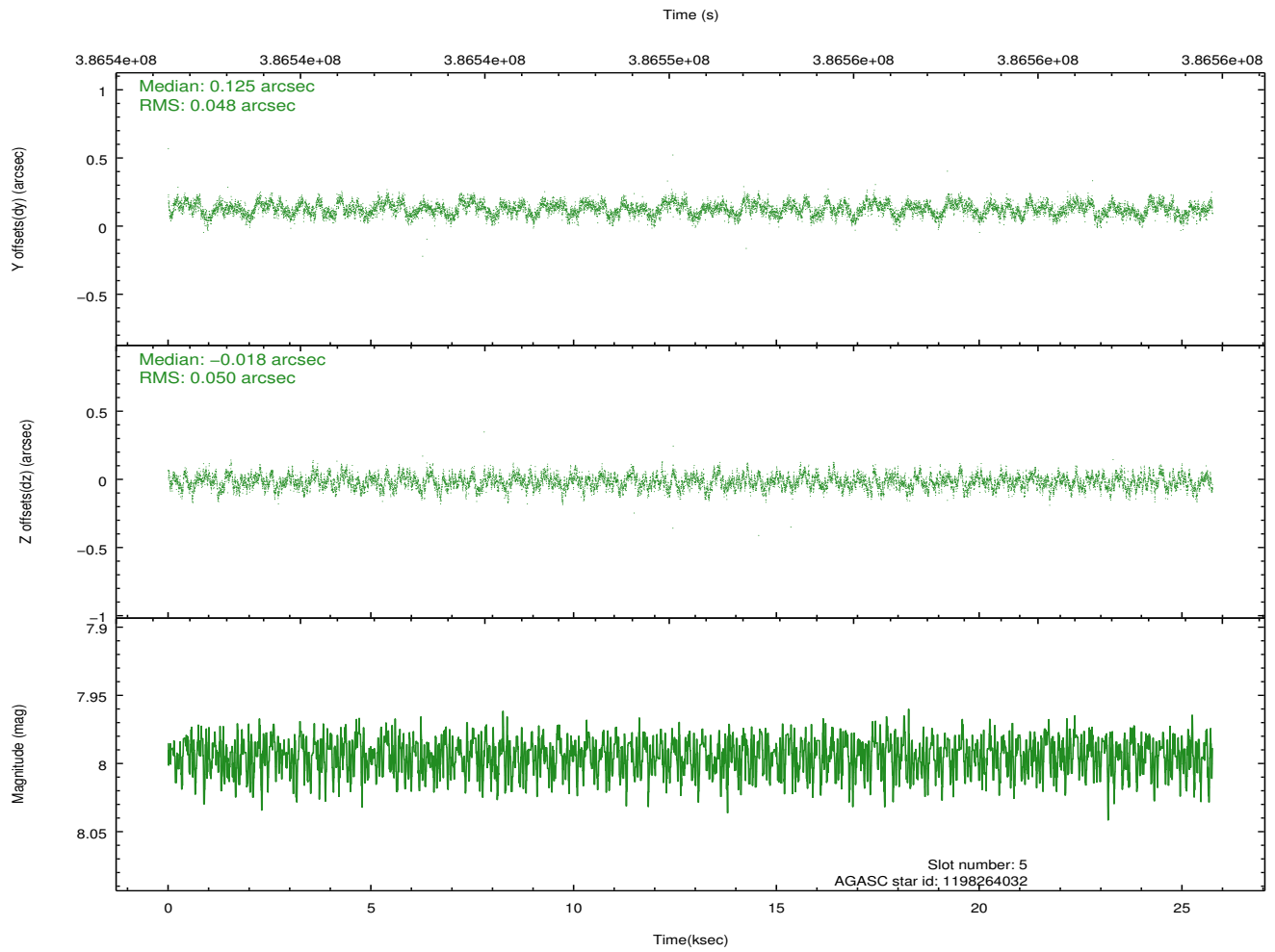
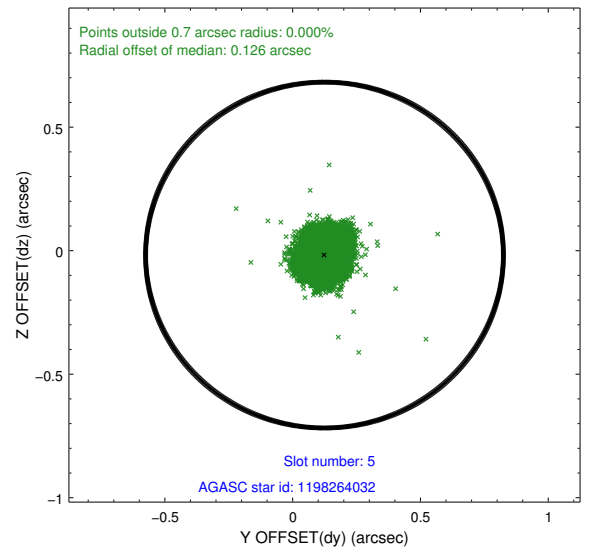
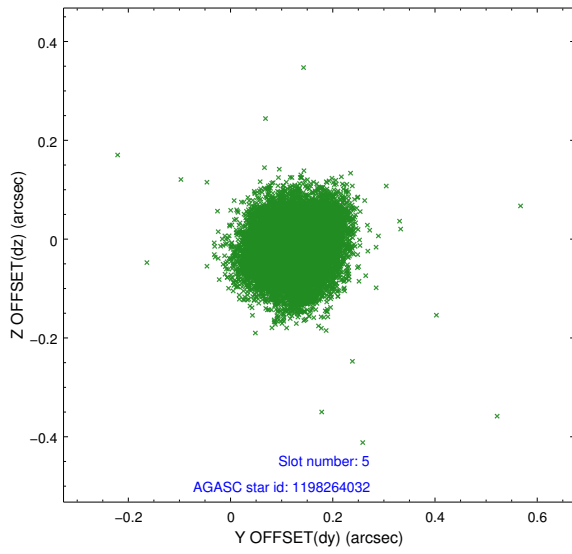
### 2.4.1 Slot 3



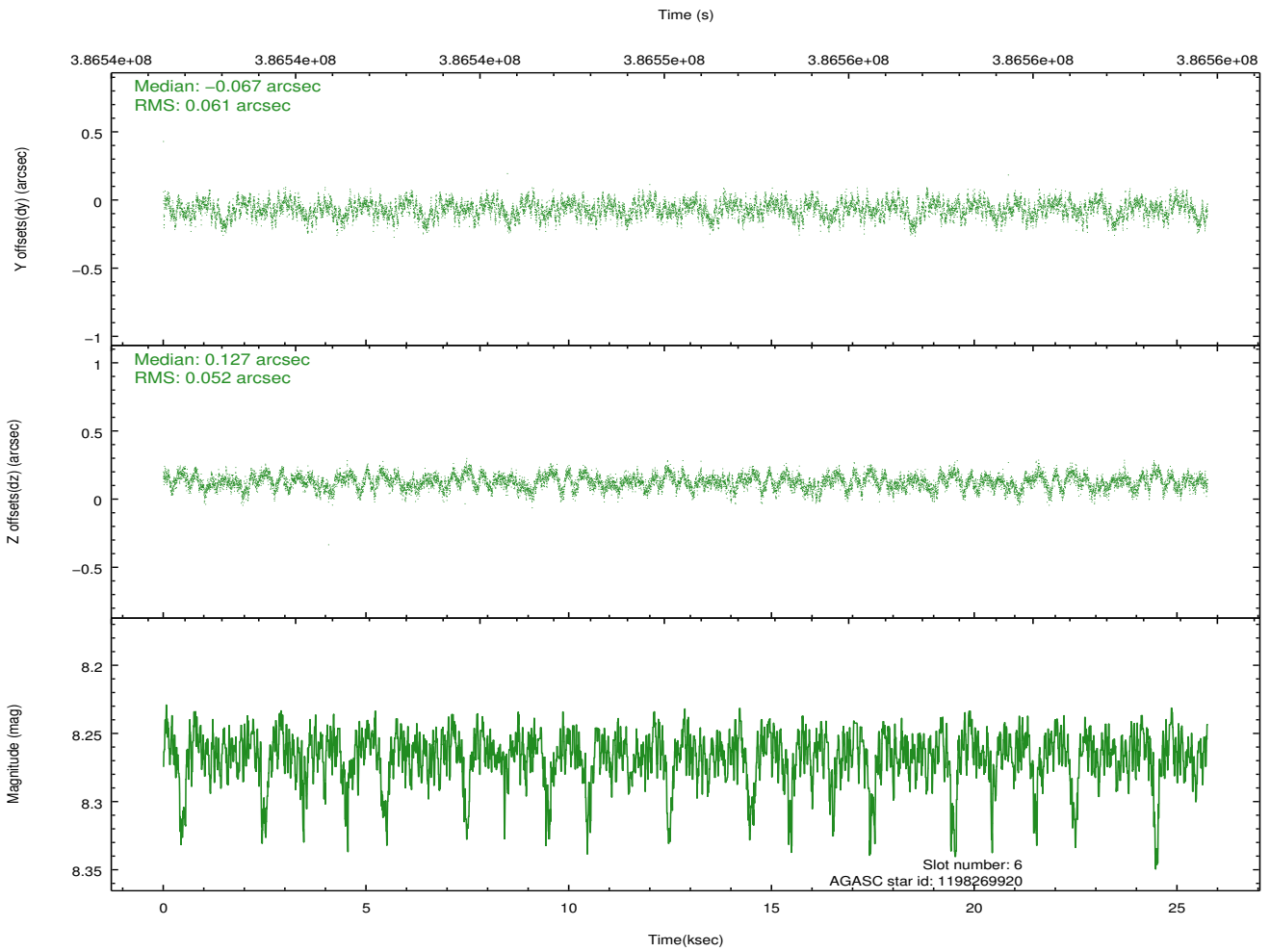
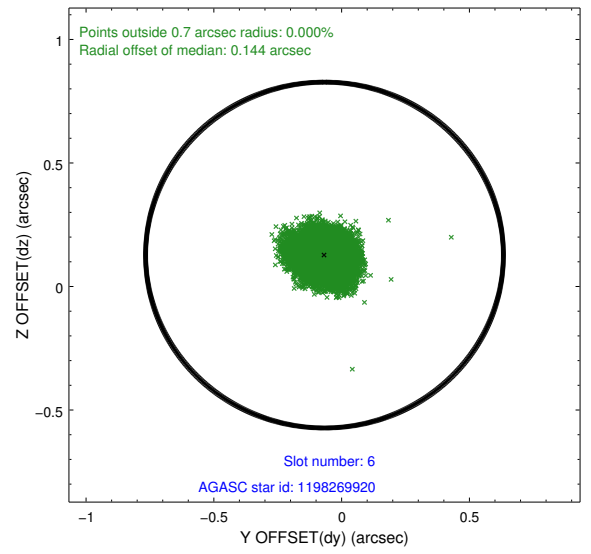
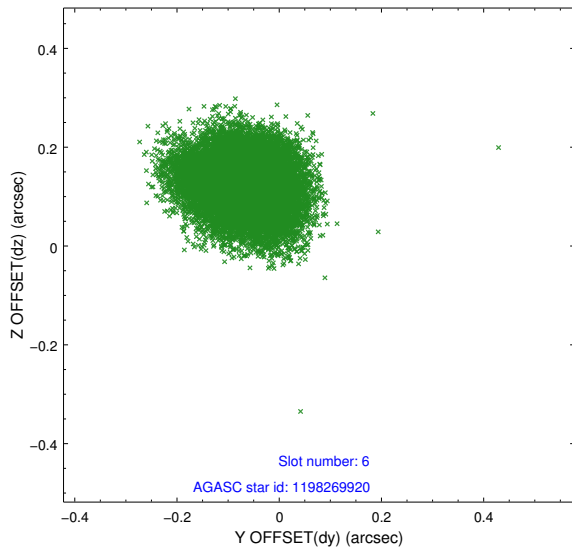
## 2.4.2 Slot 4



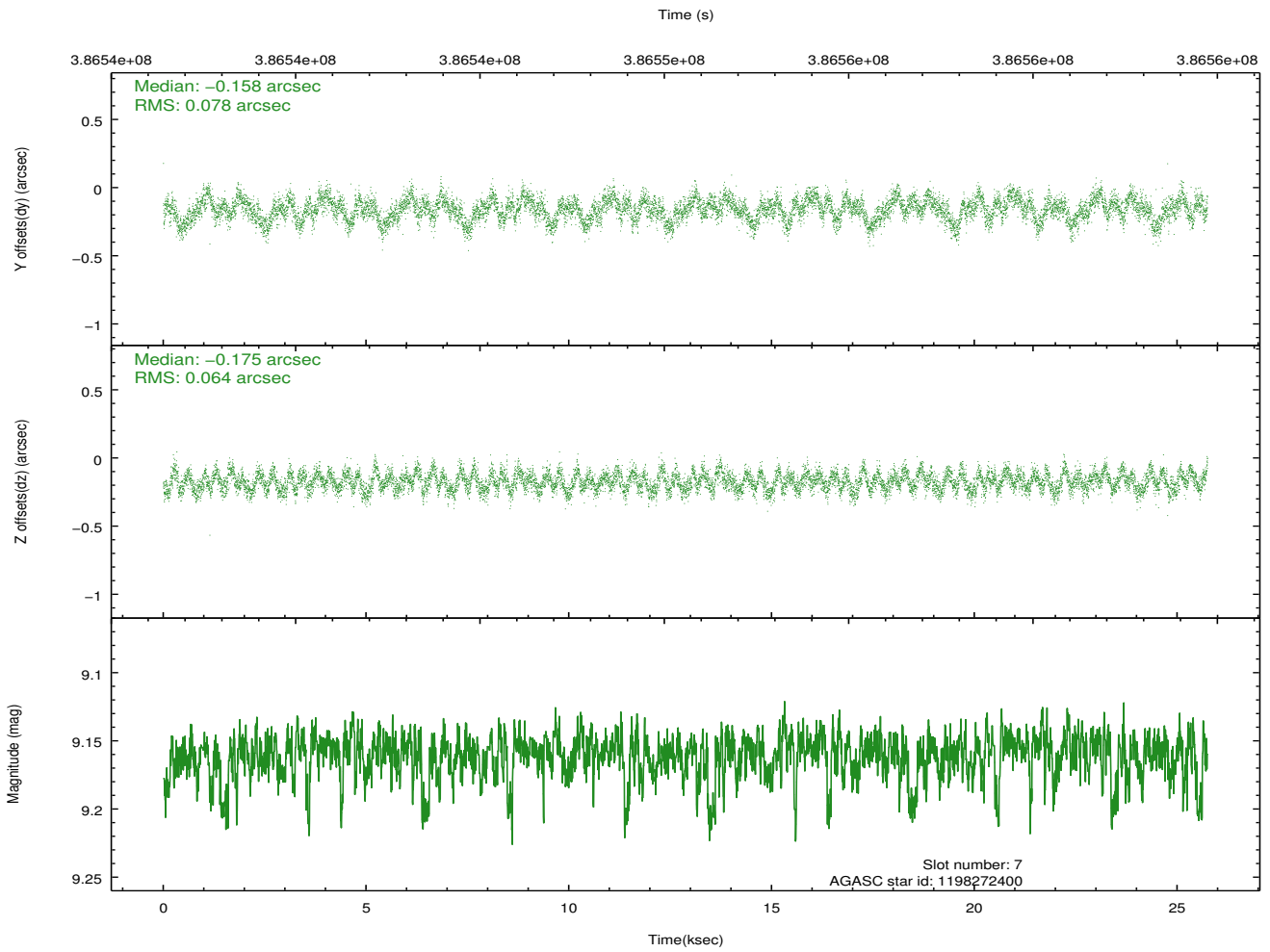
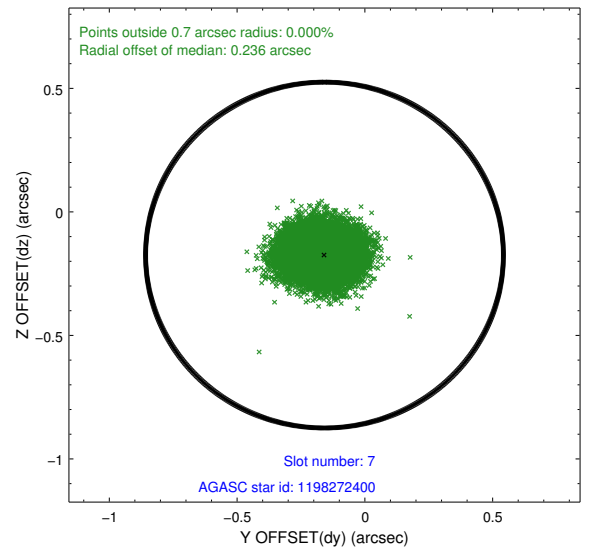
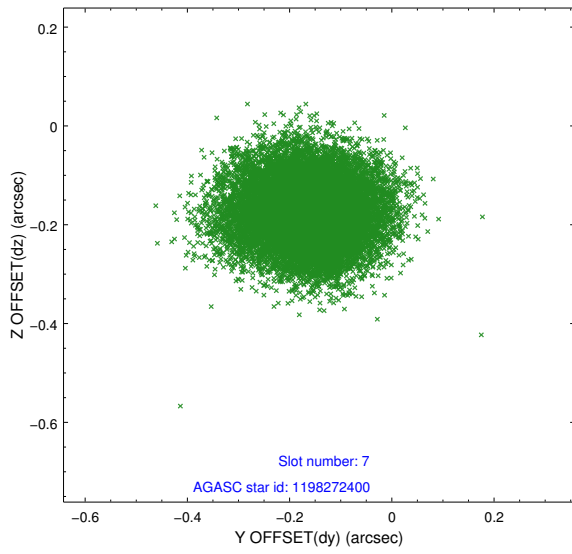
### 2.4.3 Slot 5



## 2.4.4 Slot 6

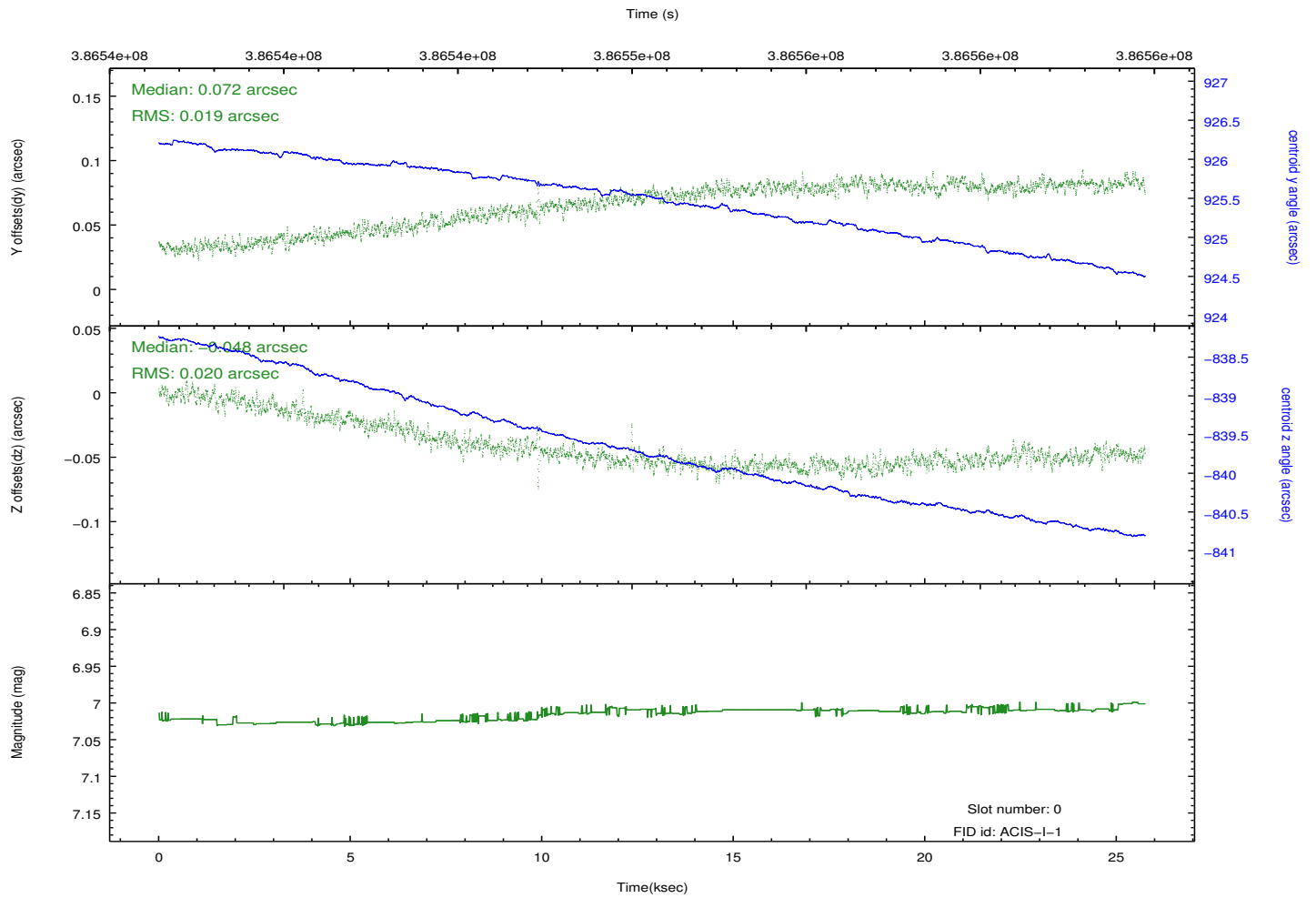
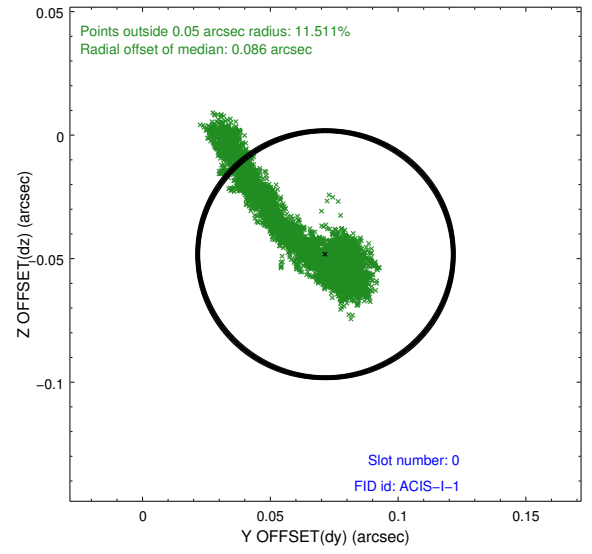
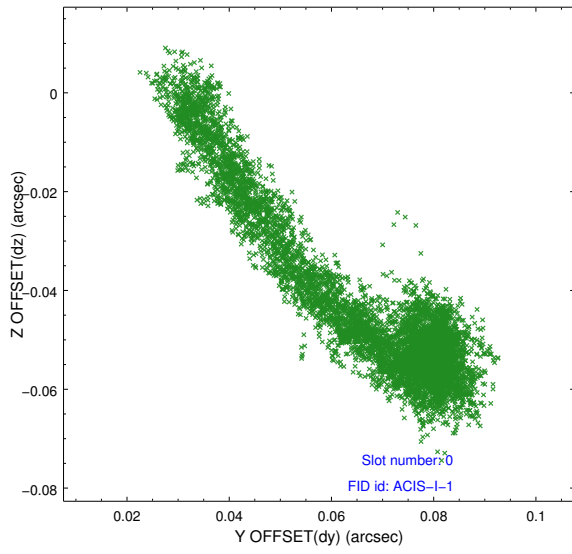


## 2.4.5 Slot 7

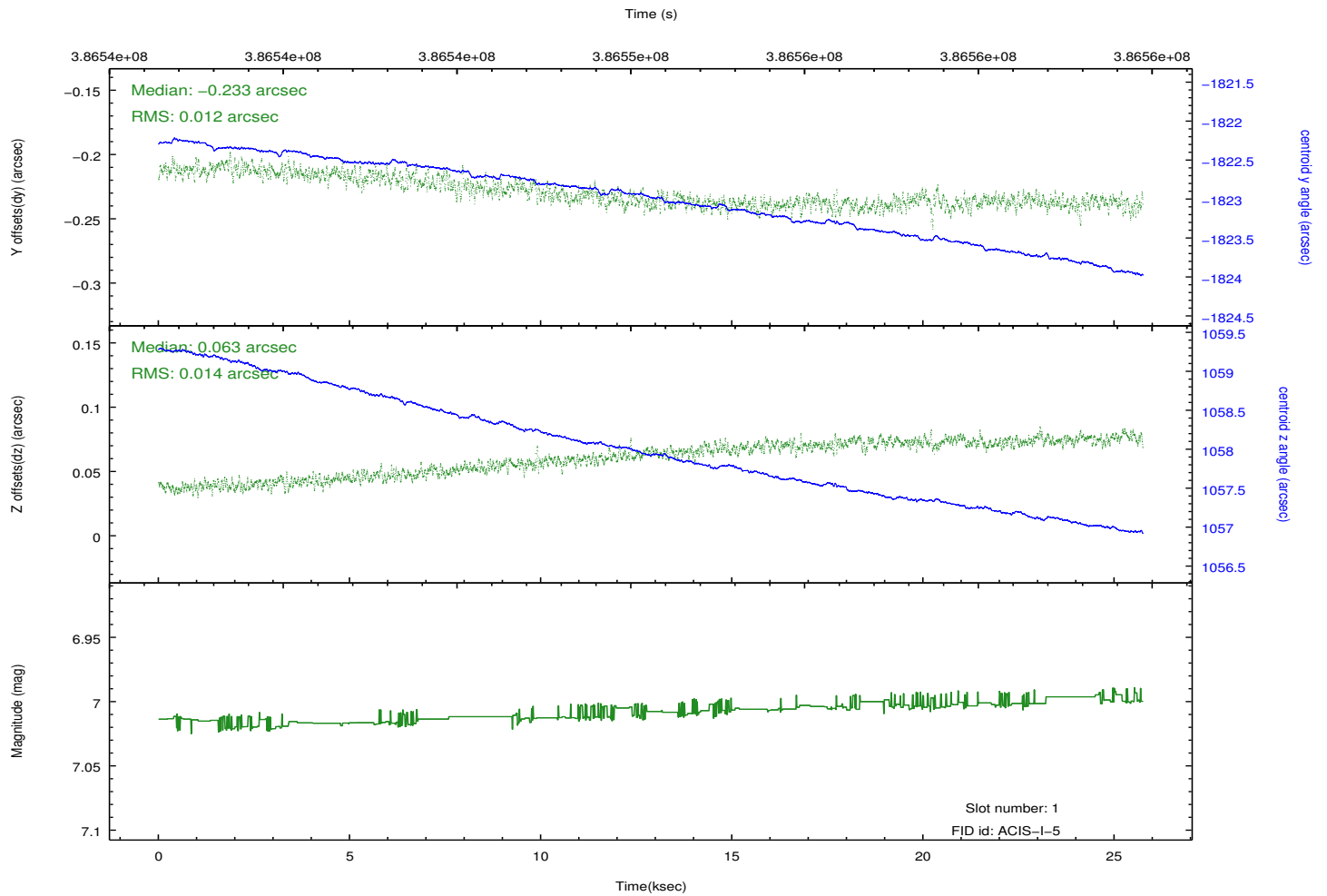
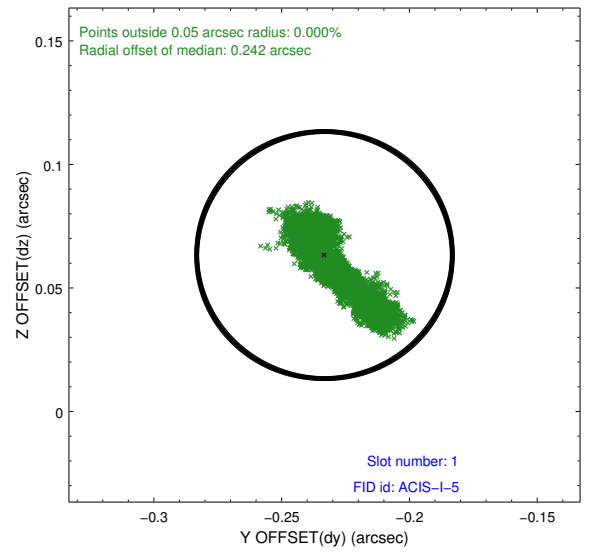
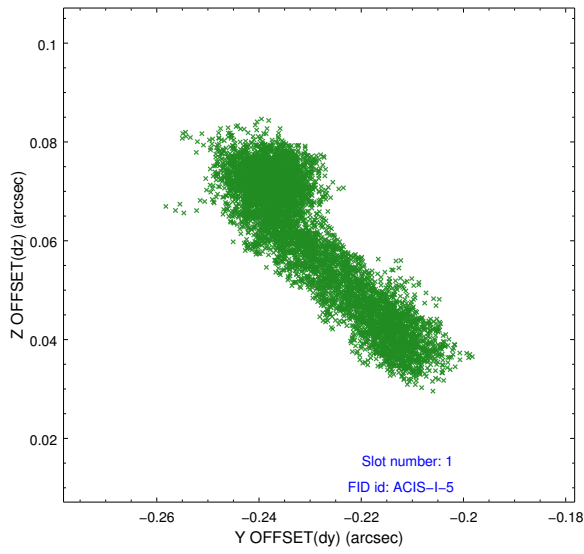


## 2.5 FID Slots

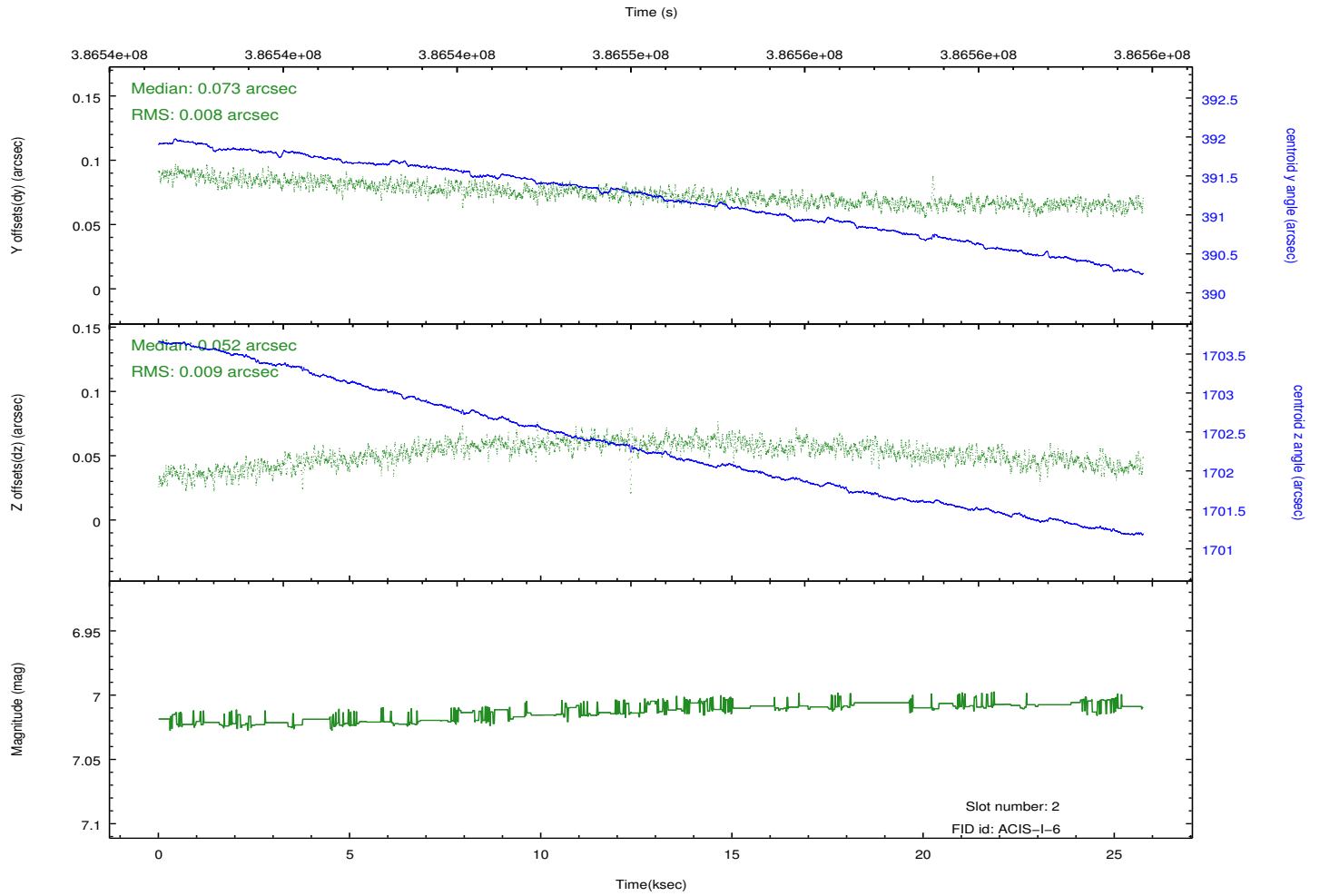
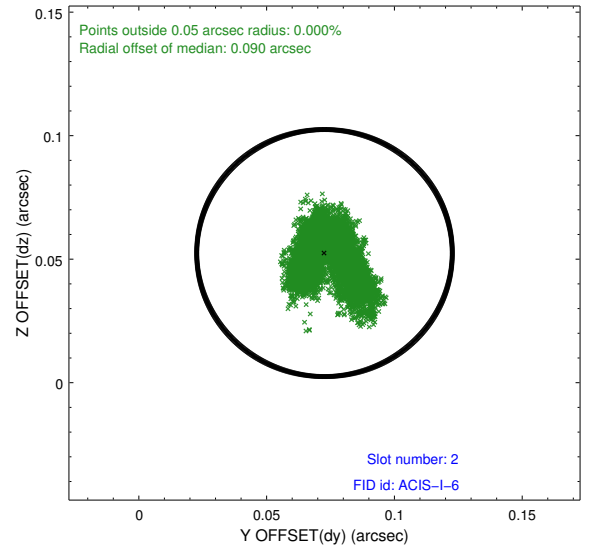
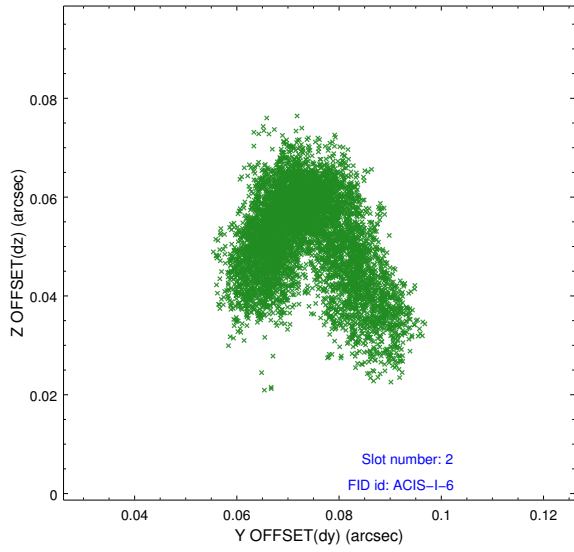
### 2.5.1 Slot 0



## 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)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.743999904156

## A.2 Comments