

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17597 - L2 Version 1  
Chandra X-Ray Center

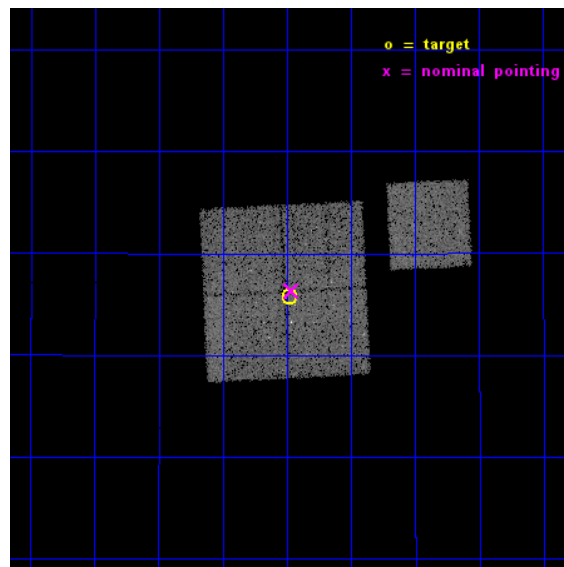
L2 Processing Date : Feb 9 2015

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# 1 Front

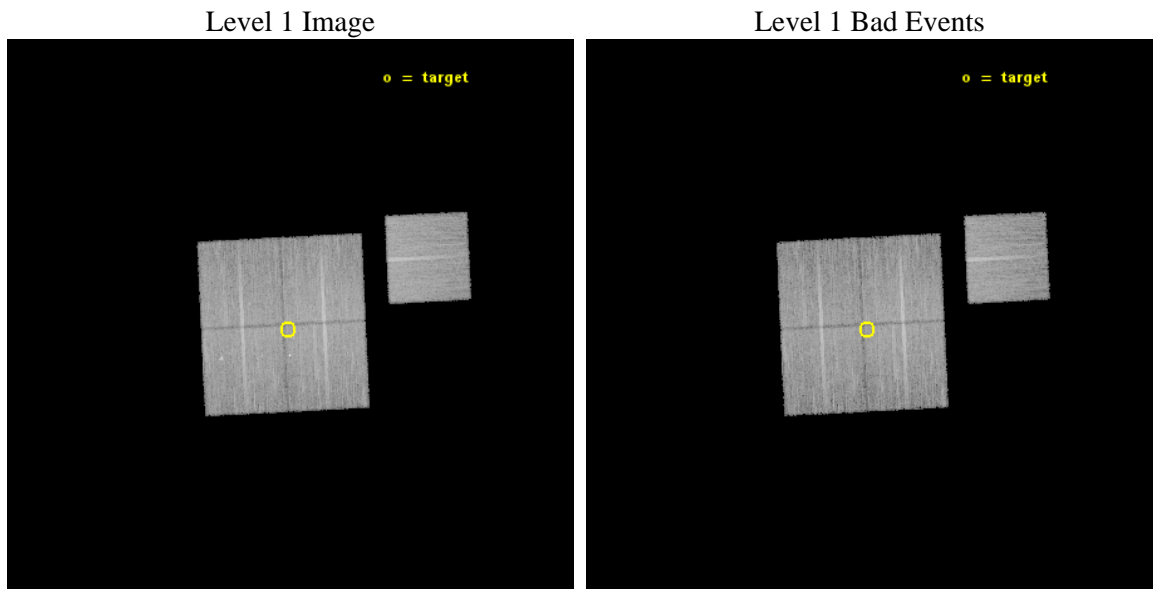
seq_num	801501	Sequence number
obs_id	17597	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.74444	Observer's specified target RA [deg]
dec_targ	26.596205	Observer's specified target Dec [deg]
ra_nom	207.74130491622	Nominal RA [deg]
dec_nom	26.605833556372	Nominal Dec [deg]
roll_nom	87.210101105075	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23571.669508219	Sum of GTIs [s]
livetime	23263.688292883	Livetime [s]
ontime0	23571.546388268	Sum of GTIs [s]
ontime1	23568.446367979	Sum of GTIs [s]
ontime2	23571.628468275	Sum of GTIs [s]
ontime3	23571.669508219	Sum of GTIs [s]
ontime6	23571.505348206	Sum of GTIs [s]
l2events	60215	Number of level 2 events



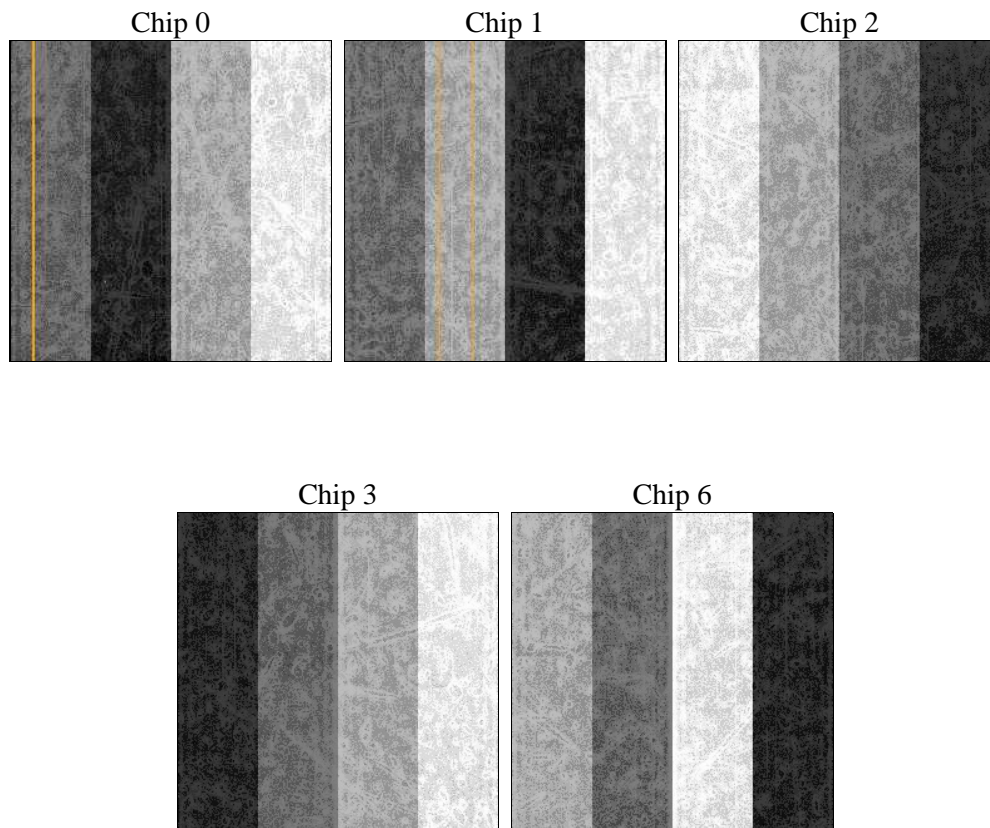
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	23800.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	23571.669508219	Sum of GTIs [s]
caldbver	4.6.6	&#160	ontime0	23571.546388268	Sum of GTIs [s]
date	2015-02-09T15:06:52	Date and time of file creation	ontime1	23568.446367979	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	23571.628468275	Sum of GTIs [s]
			ontime3	23571.669508219	Sum of GTIs [s]
			ontime6	23571.505348206	Sum of GTIs [s]
			l1events	578932	Number of level 1 events

### 2.1.4 Events

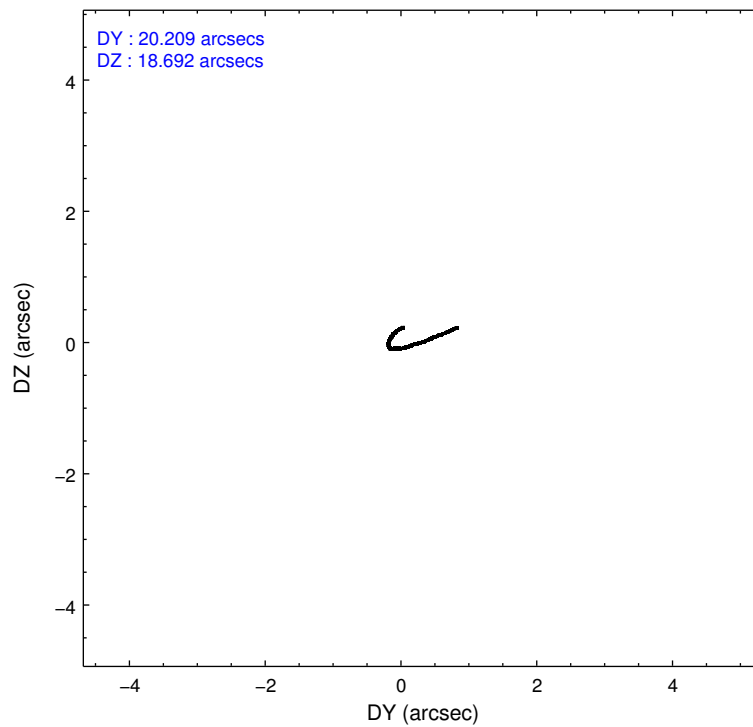
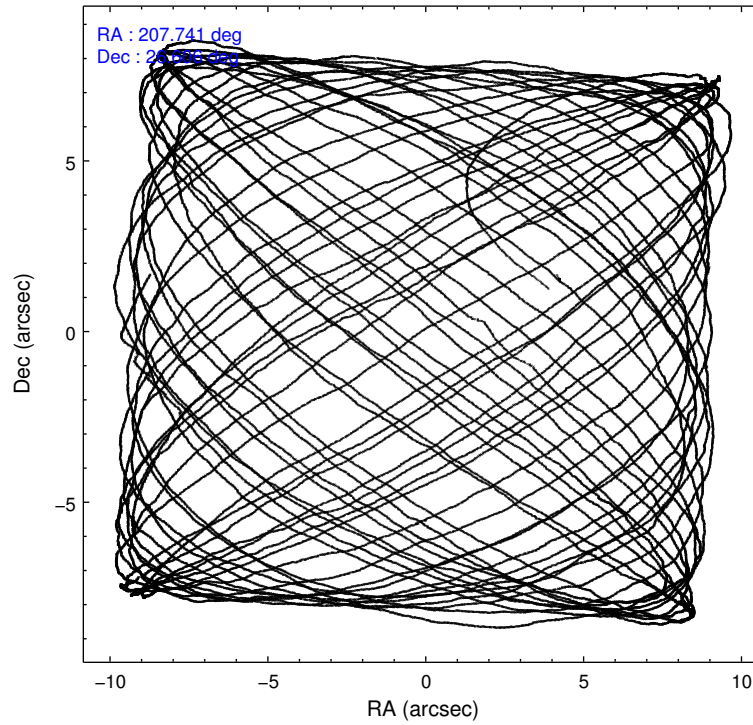
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	108806	113401	119723	117185	119817
rejected events	95150	97757	106359	103227	105411
rejected %	87%	86%	88%	88%	87%

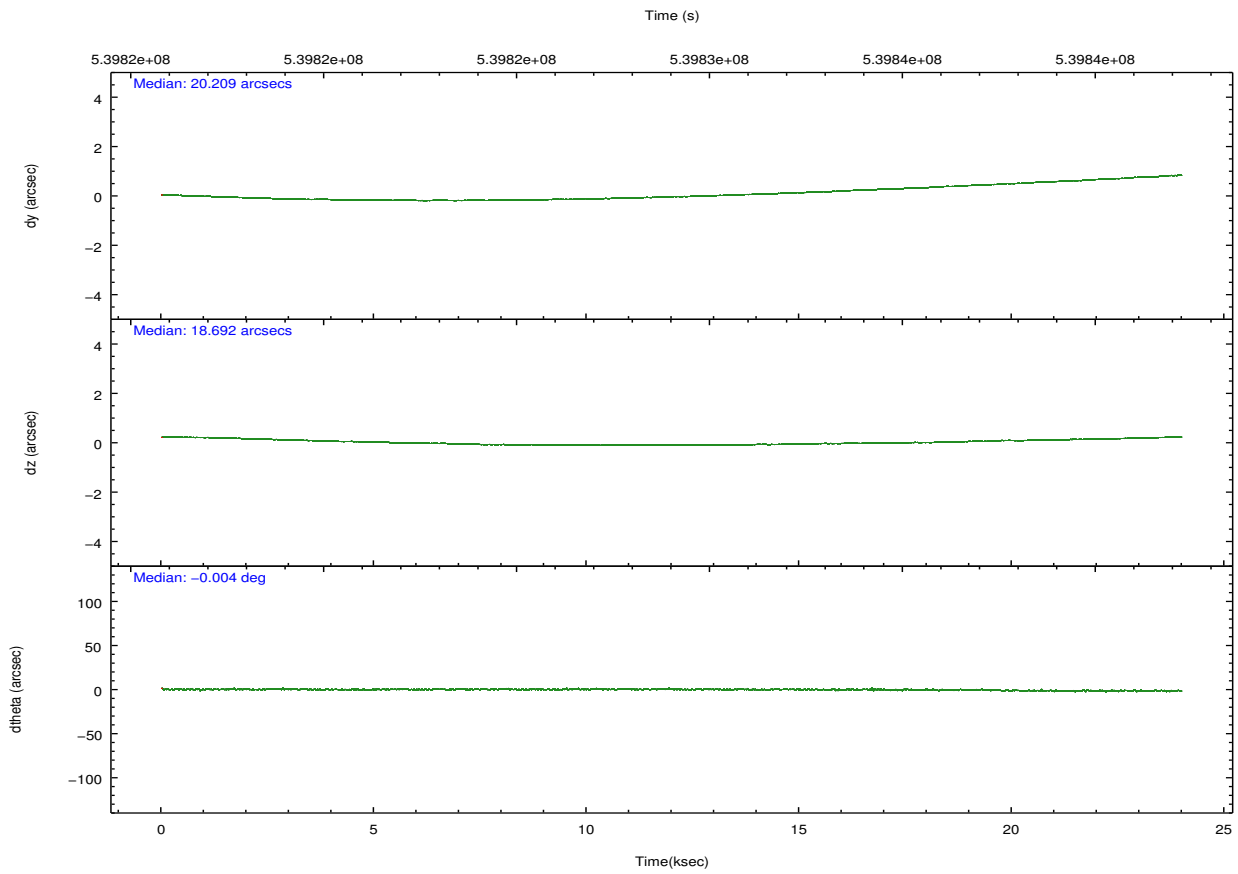
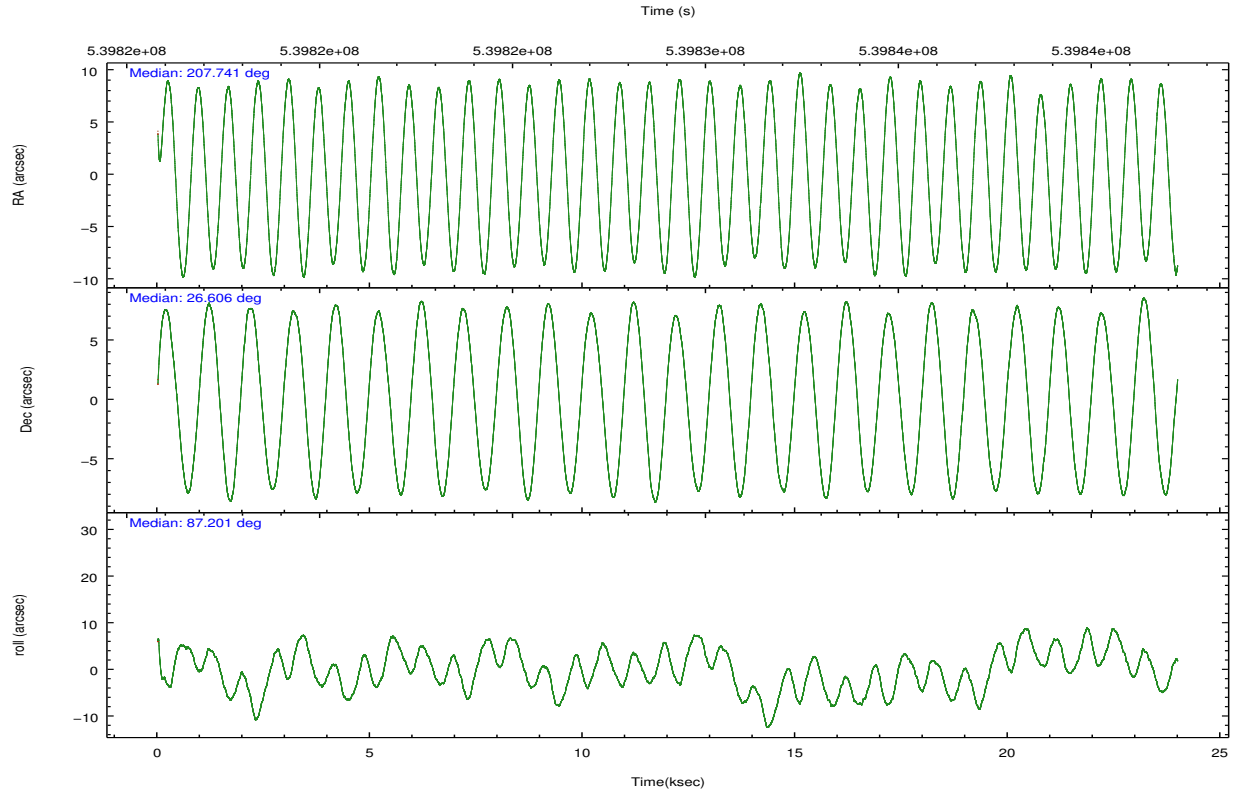
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4631	5665	4836	5293	5074
	4%	4%	4%	4%	4%
grade 1 events	66	76	69	92	54
	0%	0%	0%	0%	0%
grade 2 events	3361	3565	3174	2982	3228
	3%	3%	2%	2%	2%
grade 3 events	1477	1460	1375	1412	1392
	1%	1%	1%	1%	1%
grade 4 events	1354	1495	1371	1453	1345
	1%	1%	1%	1%	1%
grade 5 events	5482	5797	5161	6123	5988
	5%	5%	4%	5%	4%
grade 6 events	2839	3463	2611	2822	3370
	2%	3%	2%	2%	2%
grade 7 events	89596	91880	101126	97008	99366
	82%	81%	84%	82%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	207.755514	207.741304916223	CCD I2 on	Y	Y
[deg] Pointing Dec	26.581340	26.60583355637234	CCD I3 on	Y	Y
[deg] Pointing Roll	86.995042	87.21010110507484	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	-233.5899487761303	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.002504226799430853	CCD S4 on	N	N
[s] Observation start time (MET)	539817233.184000	539816442.4895101	CCD S5 on	N	N
Observation start date	2015-02-08T21:12:46	2015-02-08T21:00:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539841033.184000	539841552.94092	On-chip summing requested	N	N
Observation end date	2015-02-09T03:49:26	2015-02-09T03:59:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



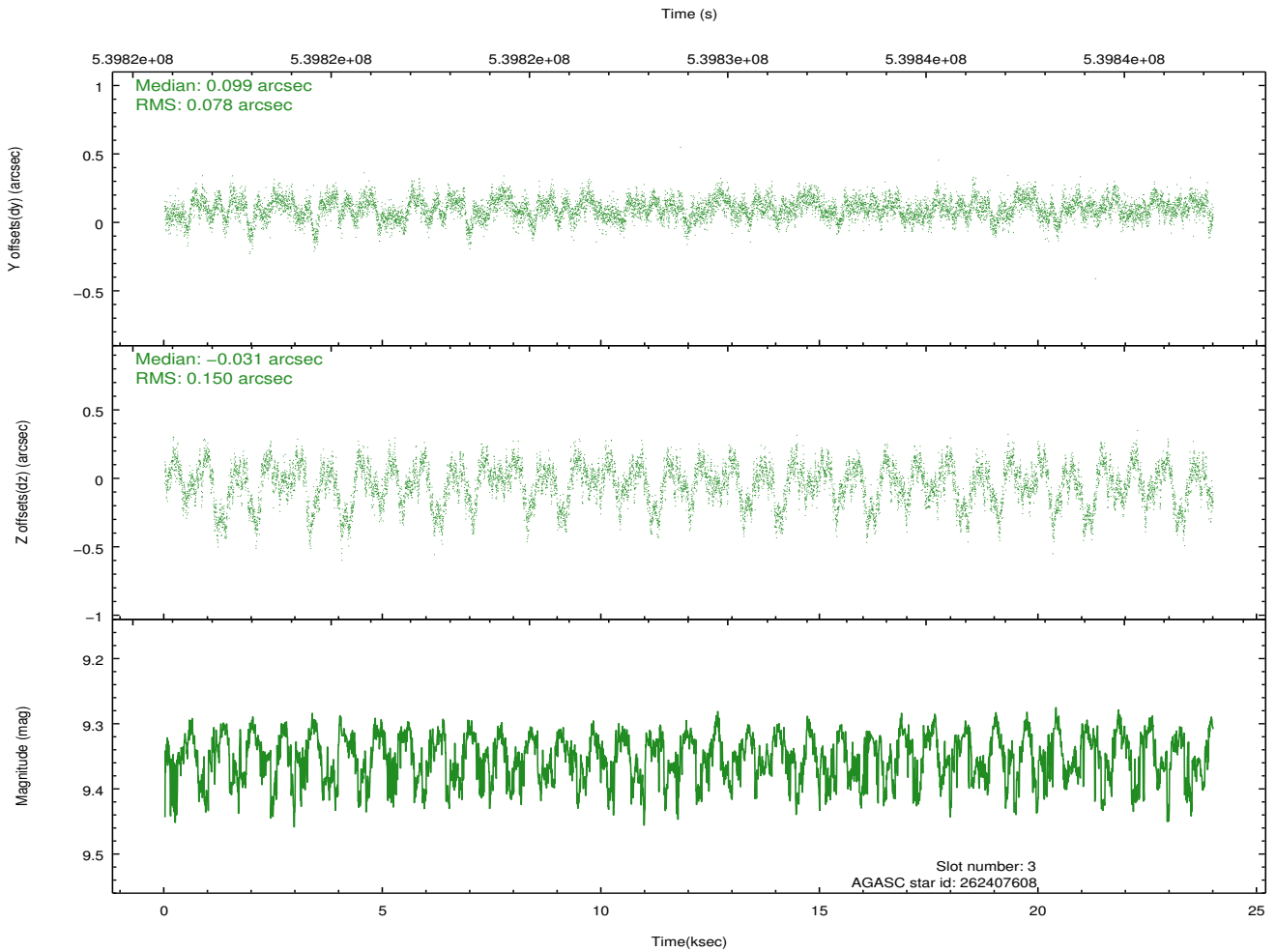
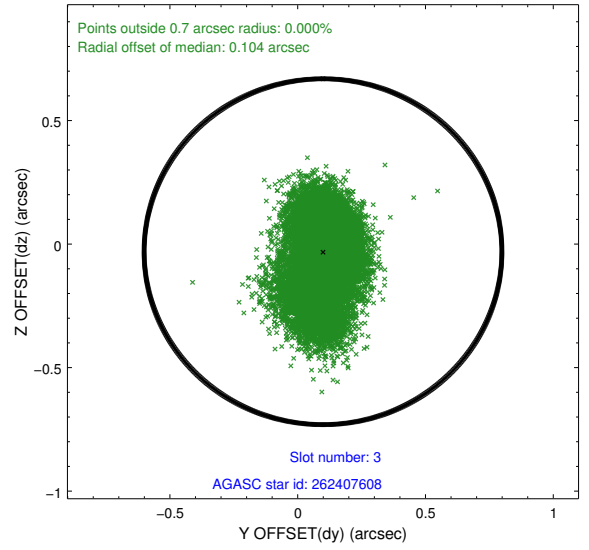
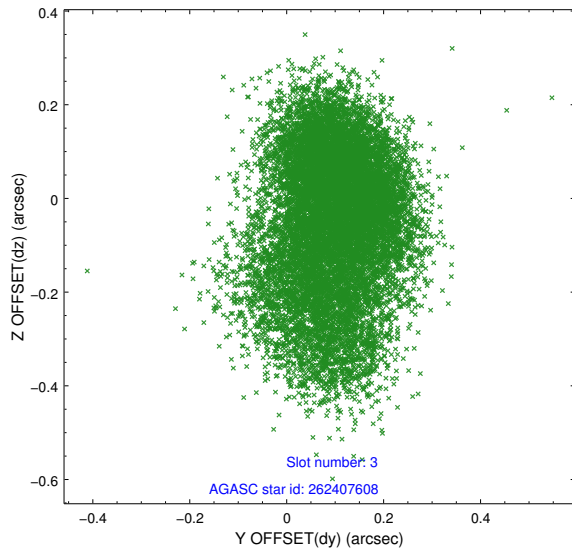


### Slot Statistics

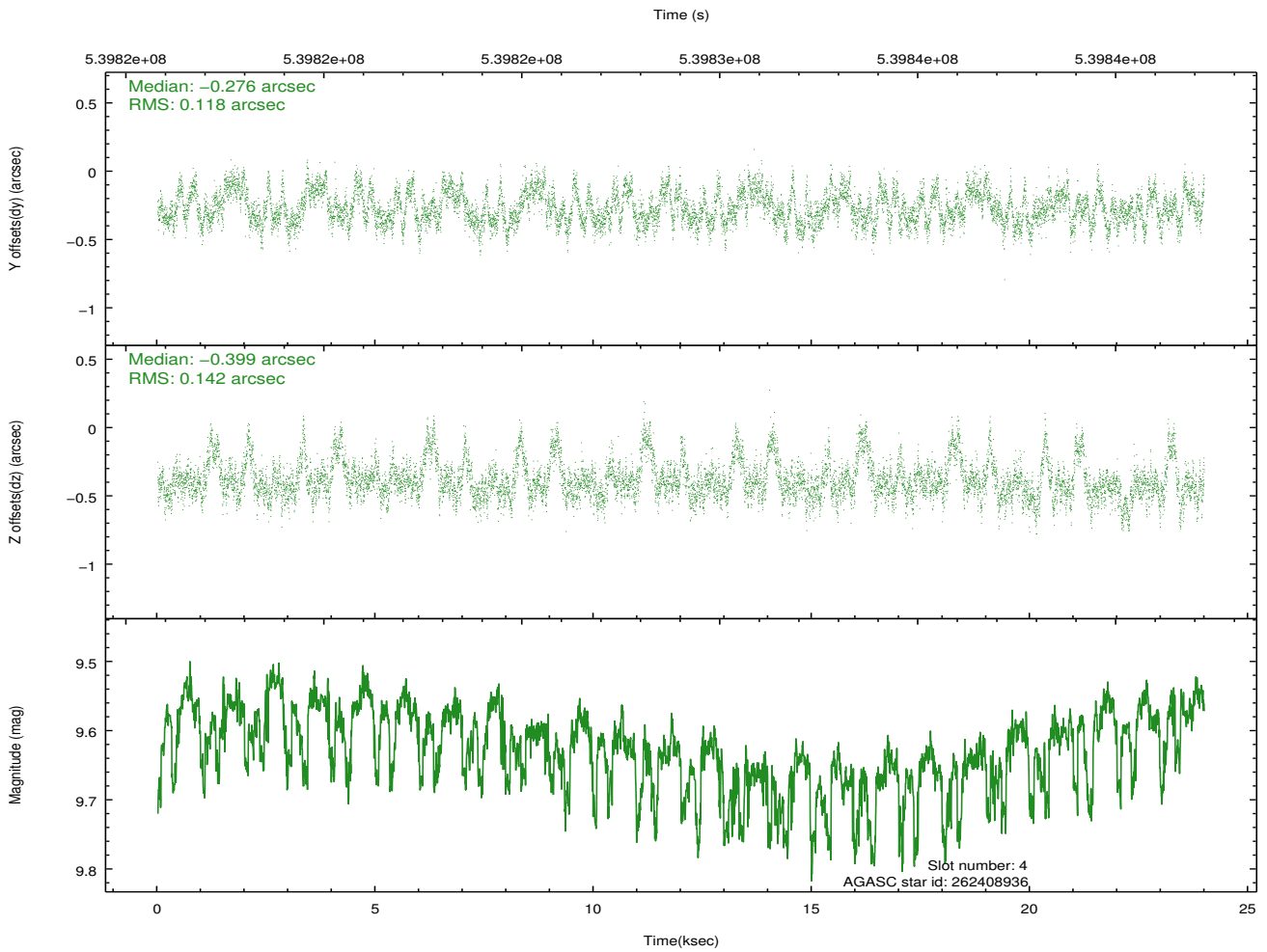
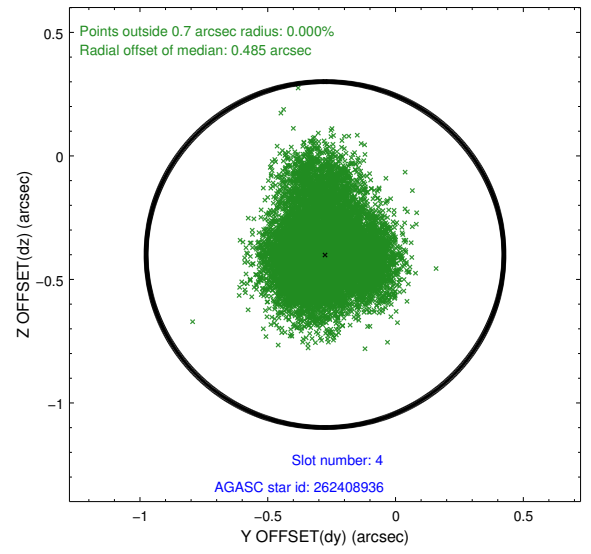
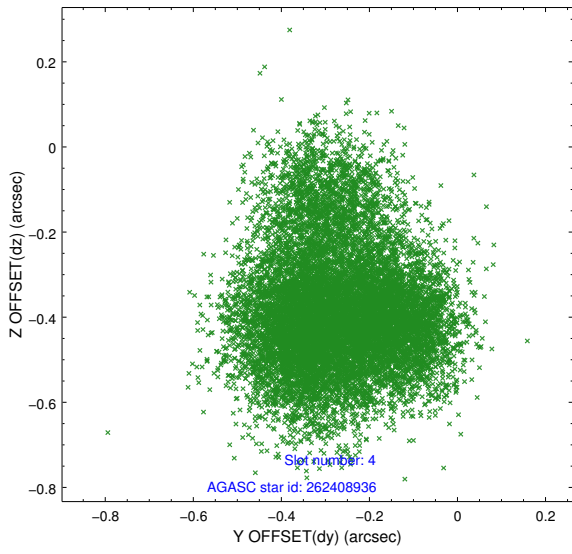
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.20	5850	0.047	0.031	0.008	0.016	0.000000	0.000000	919.06	-842.29
1	FID		ACIS-I-5	7.19	5848	-0.313	0.033	0.008	0.014	0.000000	0.000000	-1829.41	1055.02
2	FID		ACIS-I-6	7.20	5850	0.174	0.007	0.007	0.012	0.000000	0.000000	384.49	1699.73
3	GUIDE	used	262407608	9.35	11686	0.099	-0.031	0.176	0.308	207.378401	26.435507	-586.08	1186.42
4	GUIDE	used	262408936	9.63	11687	-0.276	-0.399	0.195	0.322	207.154731	26.726554	424.83	1956.46
5	GUIDE	used	262409648	8.38	11689	-0.170	0.263	0.116	0.190	208.329010	27.087208	1920.31	-1739.85
6	GUIDE	used	262414456	9.28	11683	0.288	0.525	0.136	0.223	208.043290	26.129682	-1573.27	-1013.84
7	GUIDE	used	262408096	9.33	11687	0.046	-0.353	0.160	0.266	207.011678	26.515421	-355.64	2381.01

## 2.4 Star Slots

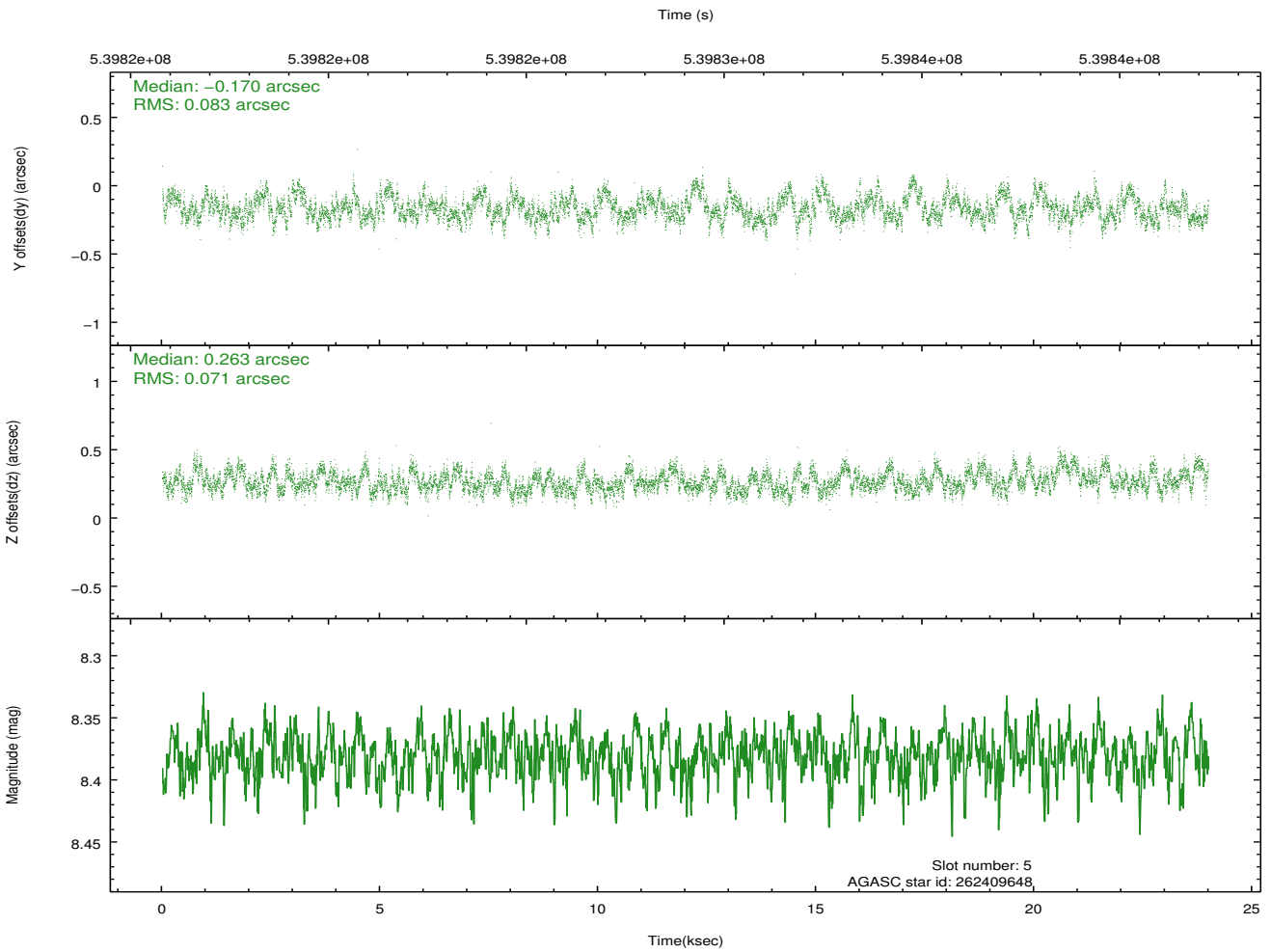
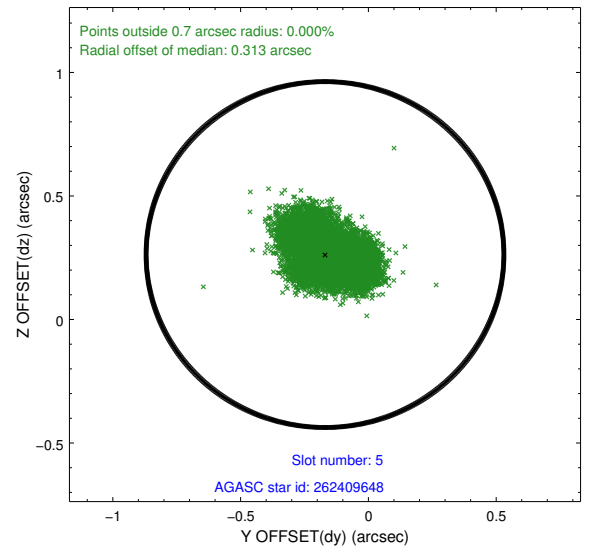
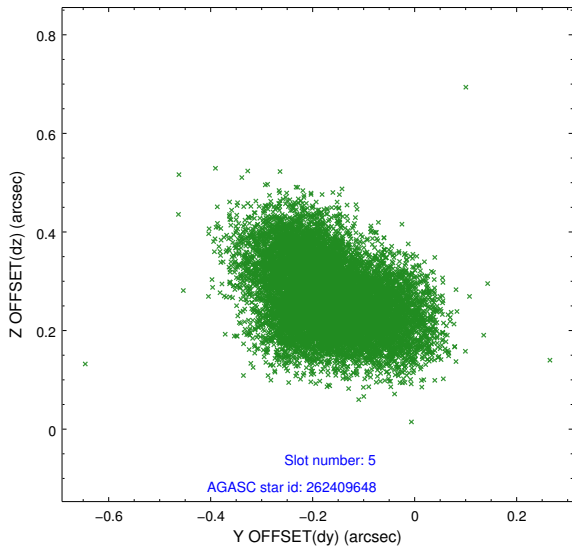
### 2.4.1 Slot 3



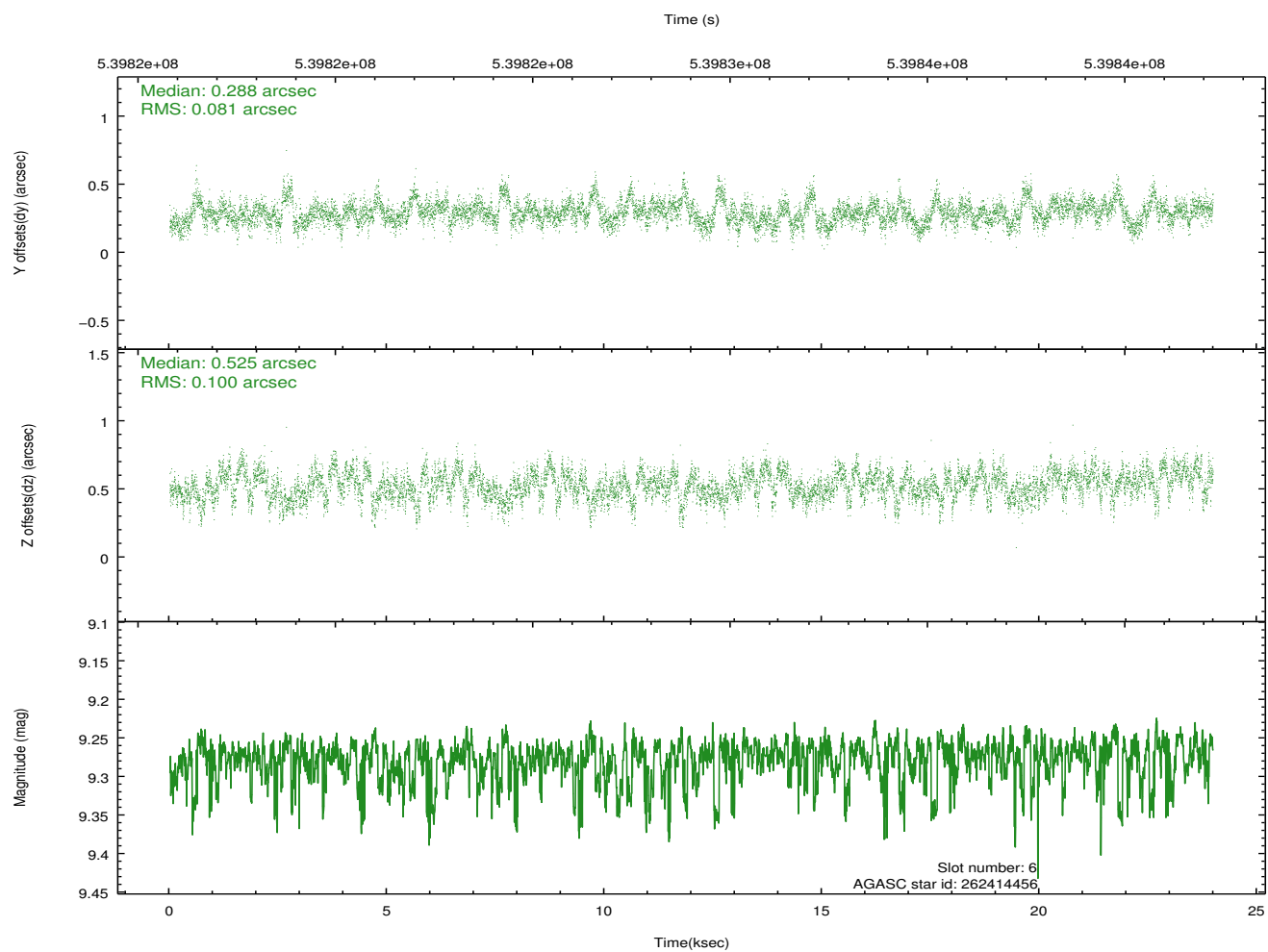
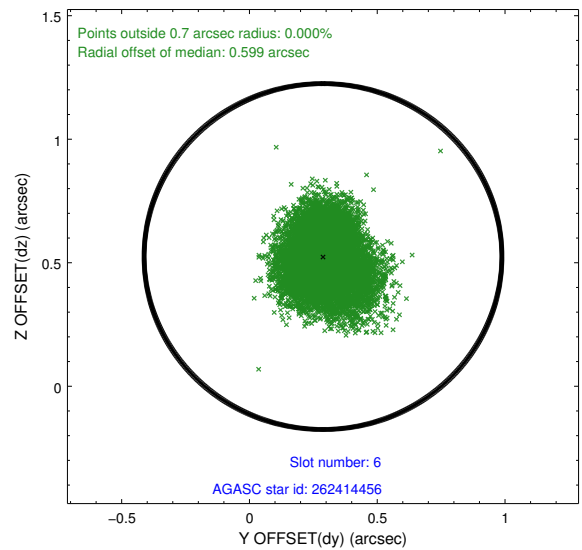
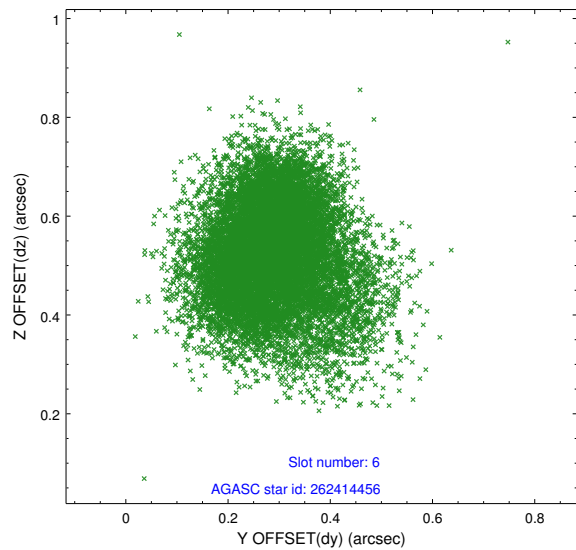
## 2.4.2 Slot 4



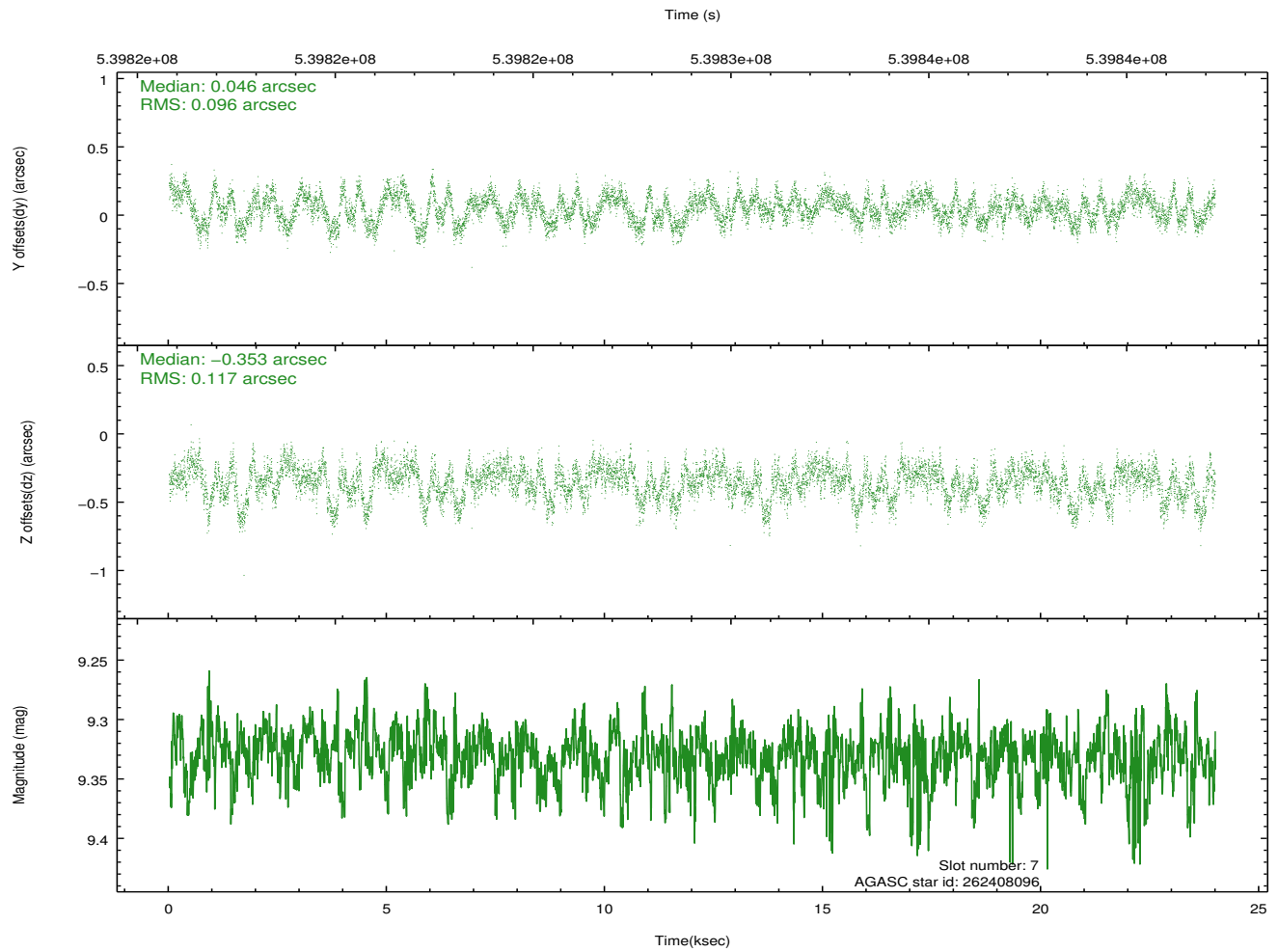
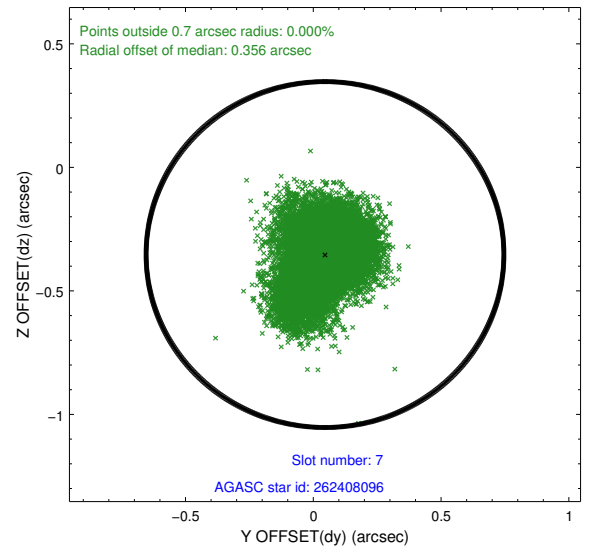
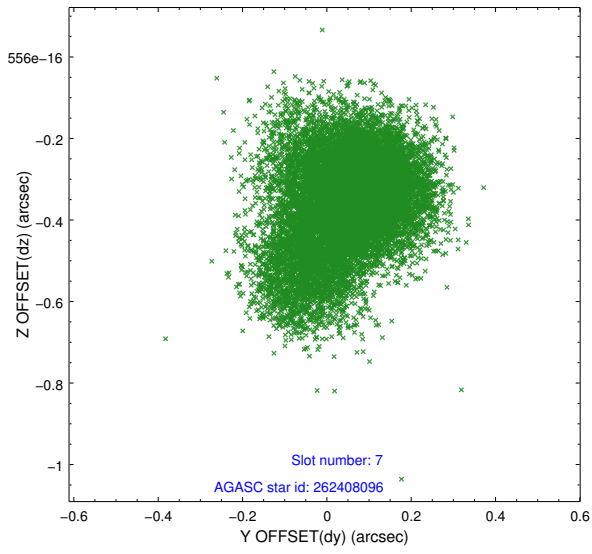
### 2.4.3 Slot 5



## 2.4.4 Slot 6

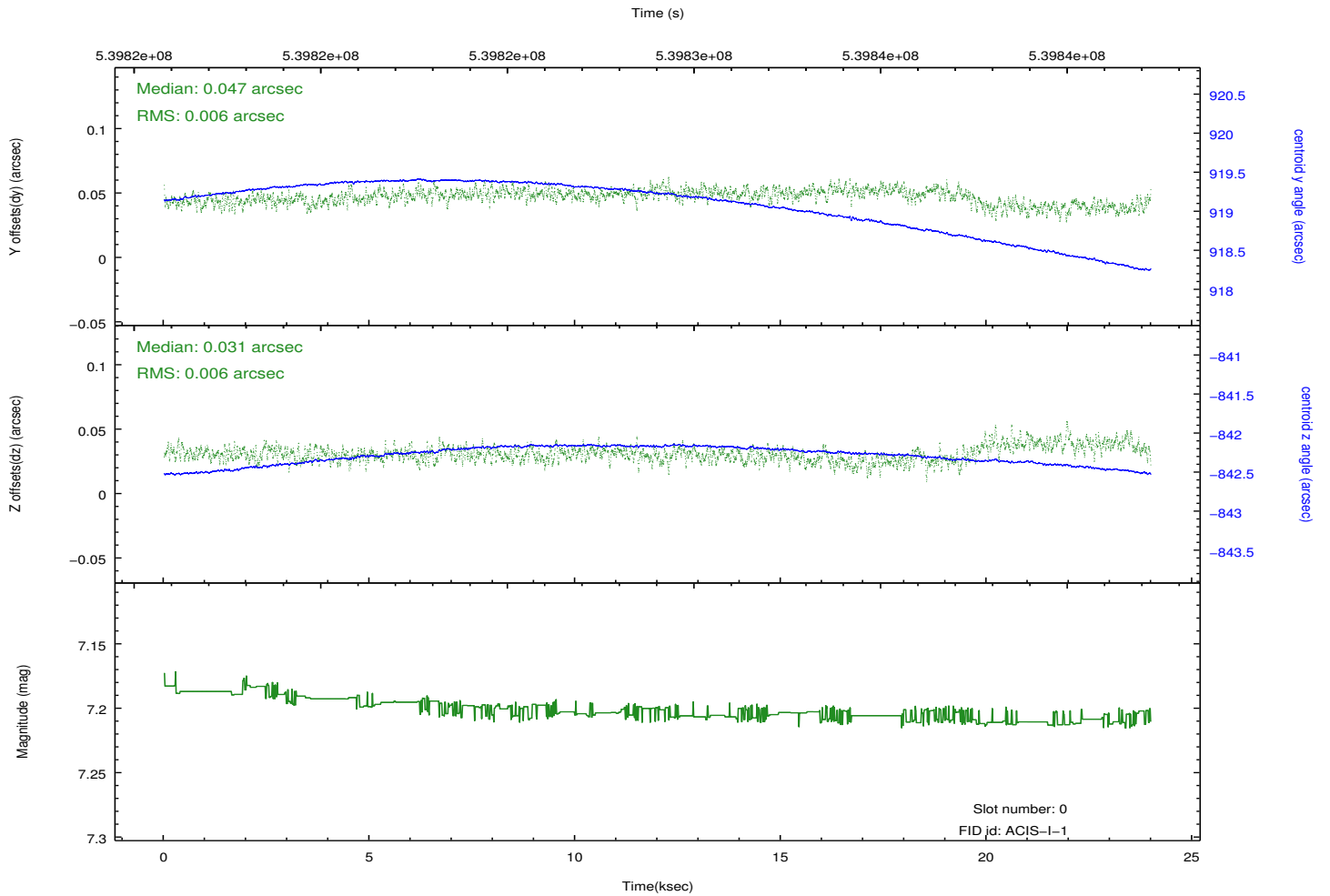
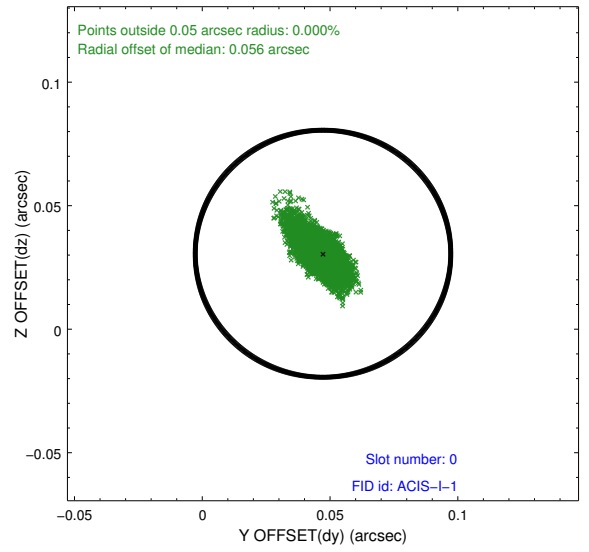
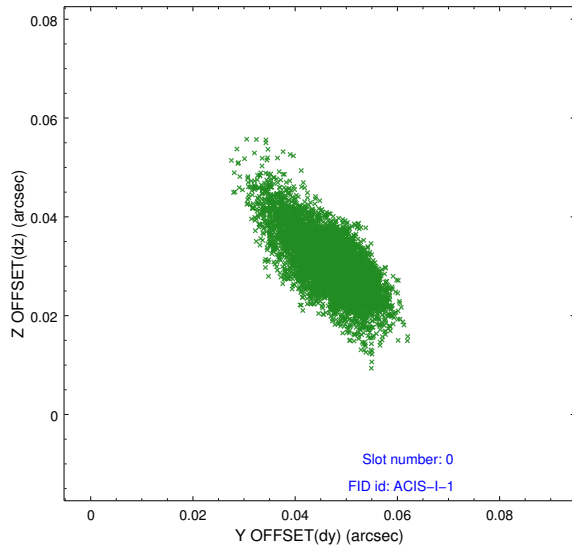


## 2.4.5 Slot 7

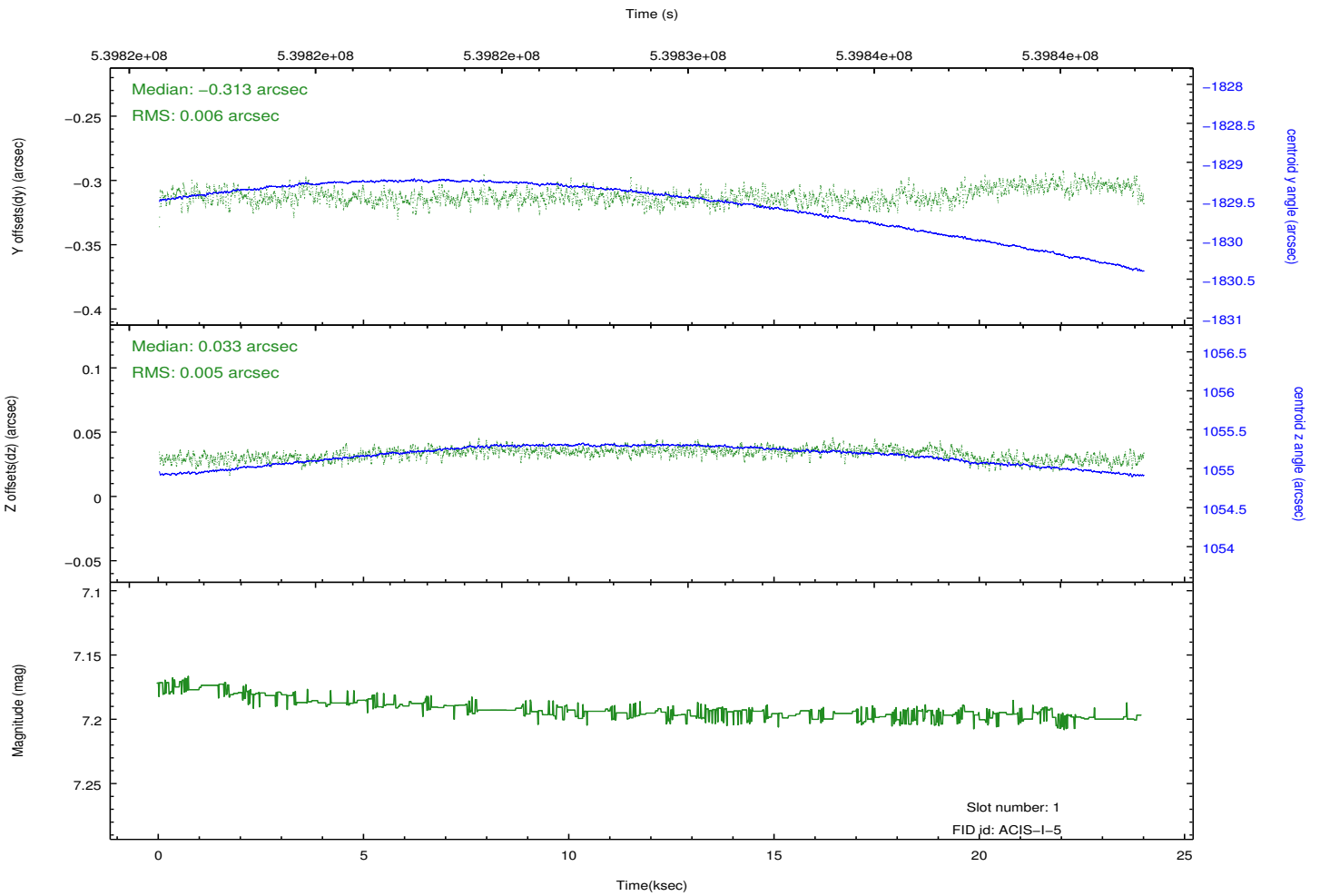
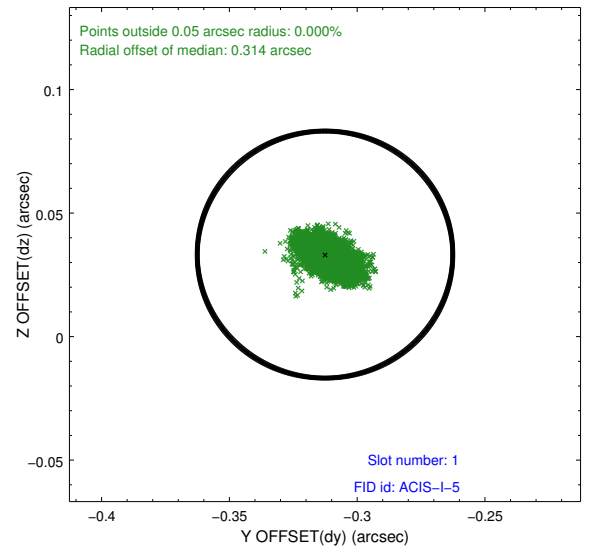
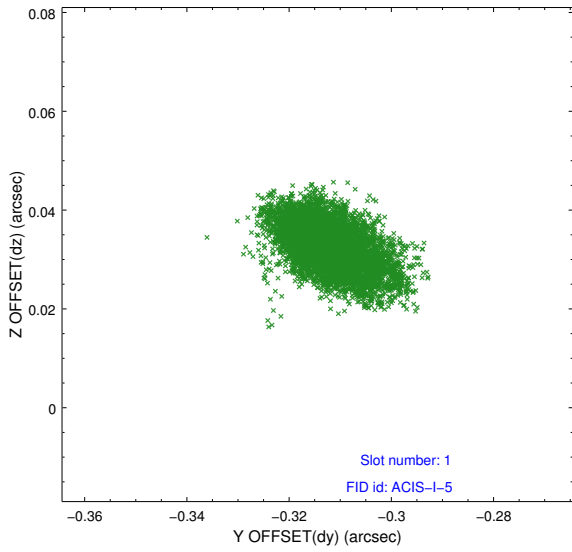


## 2.5 FID Slots

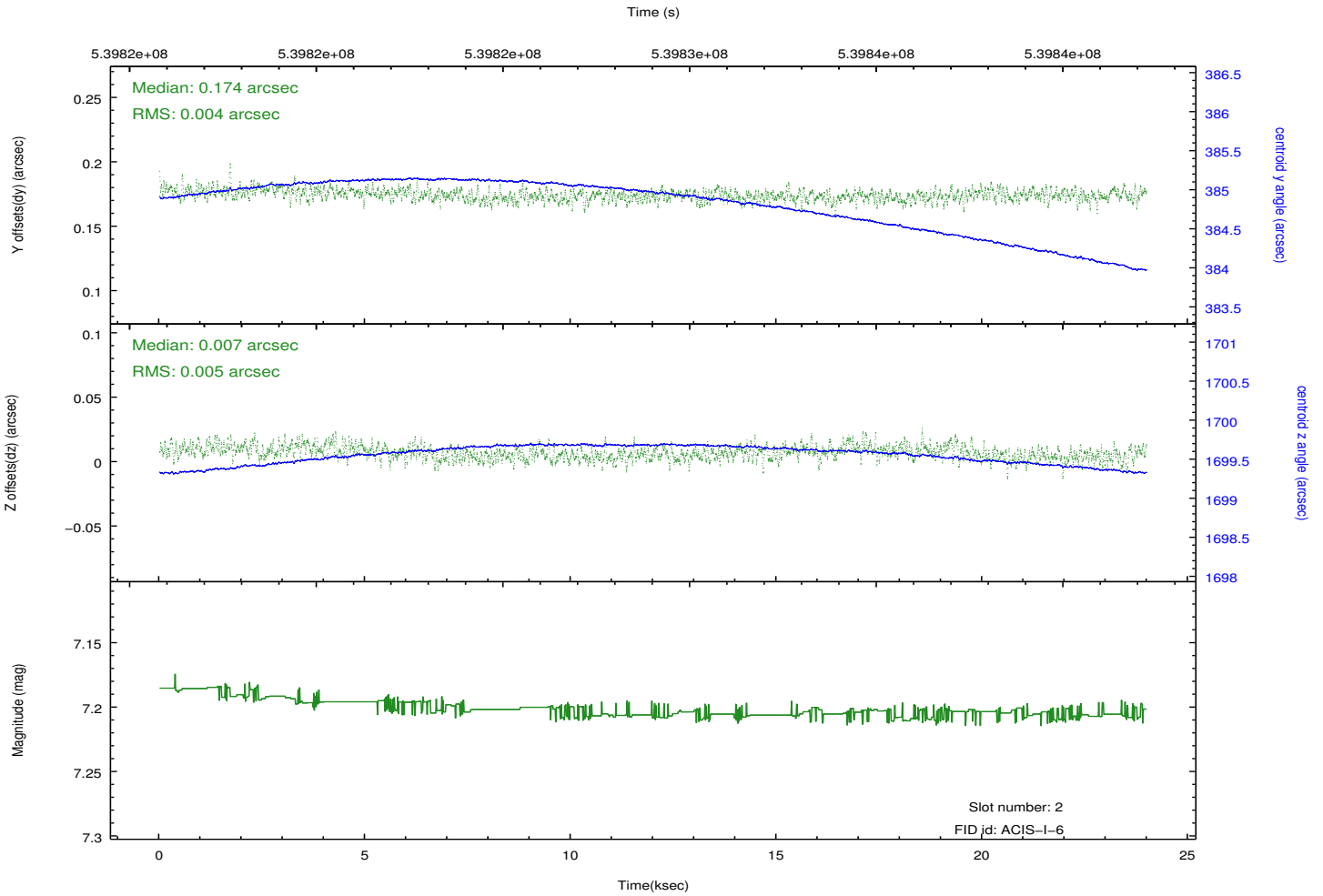
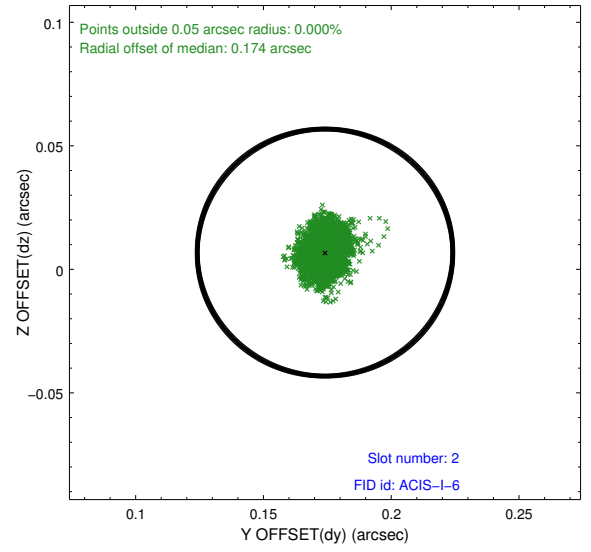
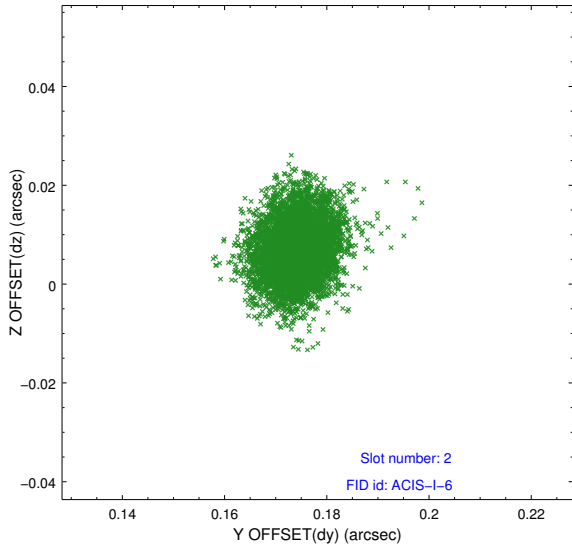
### 2.5.1 Slot 0



## 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)	2015.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.571669508219

## A.2 Comments