

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7937 - L2 Version 3  
Chandra X-Ray Center

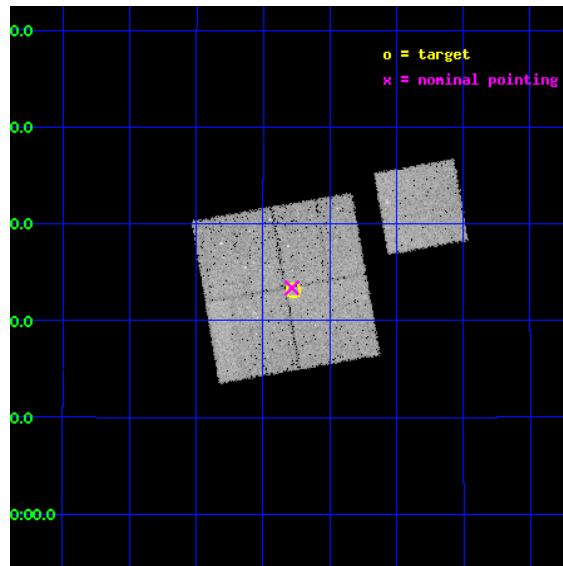
L2 Processing Date : Apr 16 2012

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# 1 Front

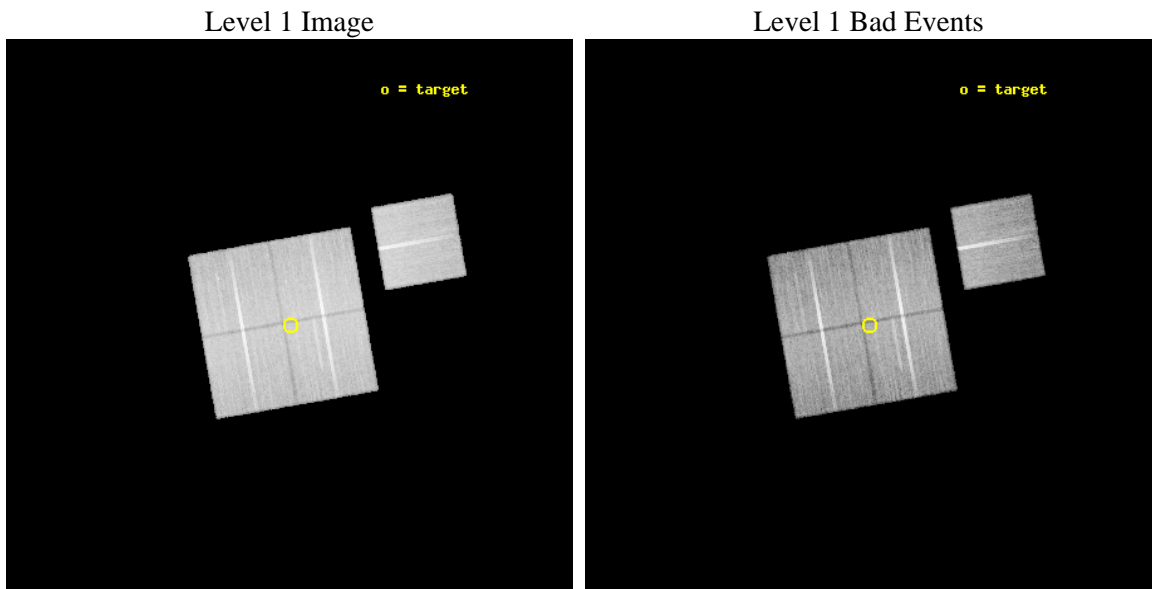
seq_num	800655	Sequence number
obs_id	7937	Observation id
title	A Complete Baryon Census in a Nearby Galaxy Group	Proposal title
observer	Dr. John Mulchaey	Principal investigator
object	NGC2563-P14	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.818333	Observer's specified target RA [deg]
dec_targ	21.386083	Observer's specified target Dec [deg]
ra_nom	125.8209977419	Nominal RA [deg]
dec_nom	21.390105212996	Nominal Dec [deg]
roll_nom	80.057369533944	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30028.722332597	Sum of GTIs [s]
livetime	29636.374968498	Livetime [s]
ontime0	30028.599212587	Sum of GTIs [s]
ontime1	30022.358271897	Sum of GTIs [s]
ontime2	30028.681302488	Sum of GTIs [s]
ontime3	30028.722332597	Sum of GTIs [s]
ontime6	30025.417162359	Sum of GTIs [s]
l2events	93342	Number of level 2 events



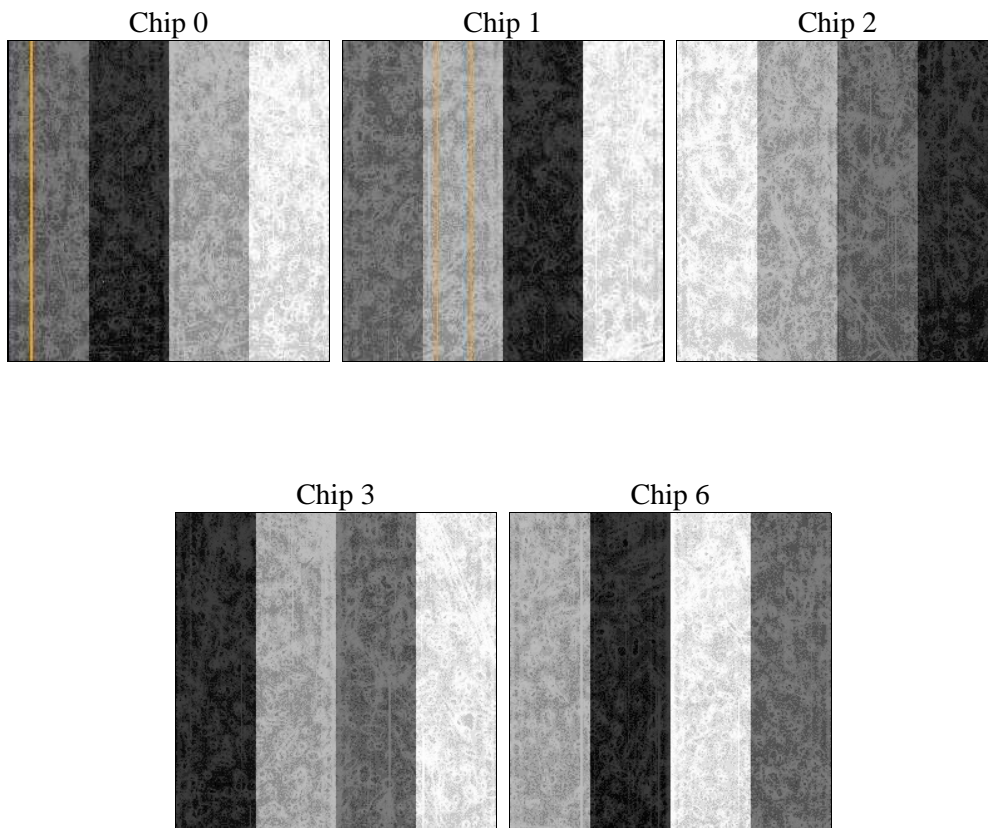
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	30028.722332597	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	30028.599212587	Sum of GTIs [s]
date	2012-04-16T04:57:13	Date and time of file creation	ontime1	30022.358271897	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	30028.681302488	Sum of GTIs [s]
			ontime3	30028.722332597	Sum of GTIs [s]
			ontime6	30025.417162359	Sum of GTIs [s]
			l1events	1090803	Number of level 1 events

### 2.1.4 Events

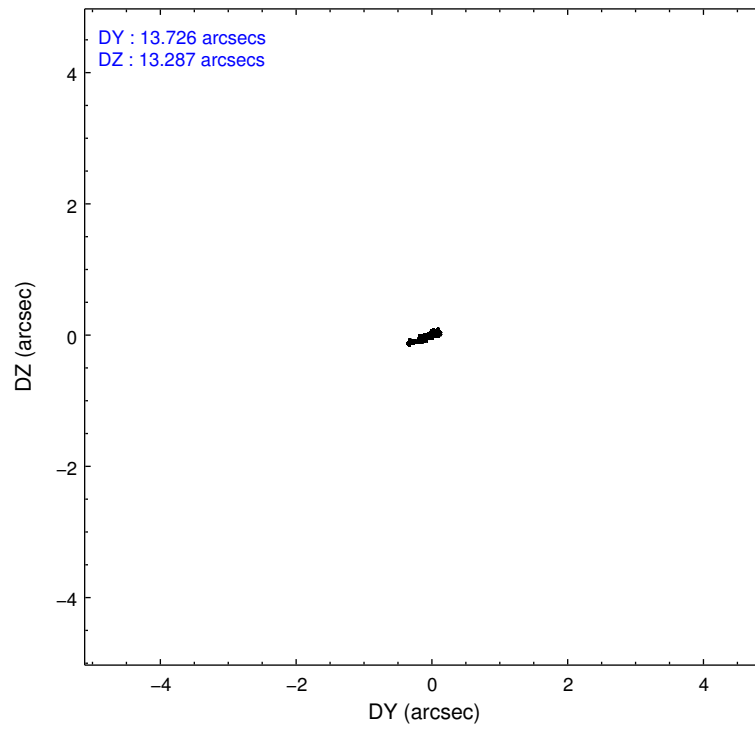
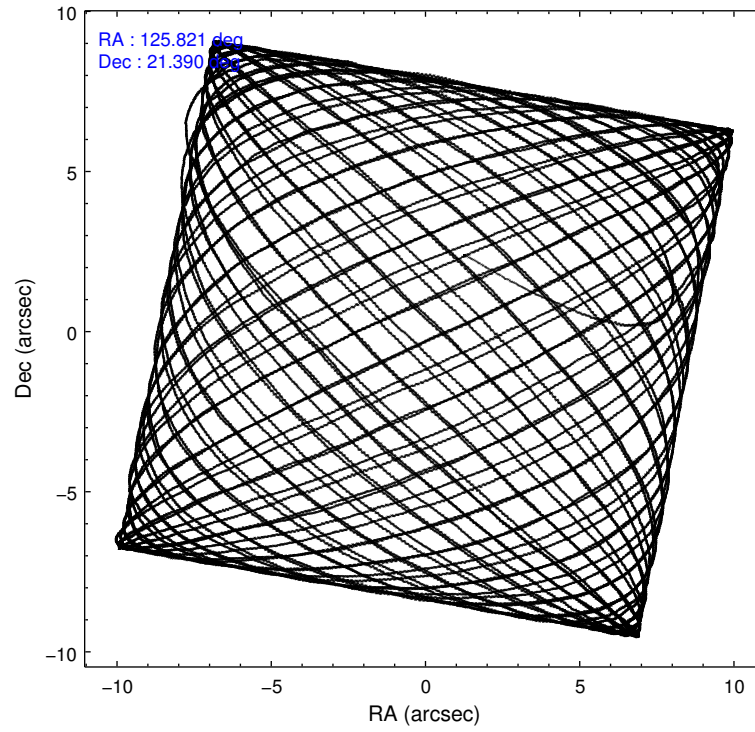
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	209961	207785	231957	220977	220123
rejected events	187476	182792	210166	200269	197621
rejected %	89%	87%	90%	90%	89%

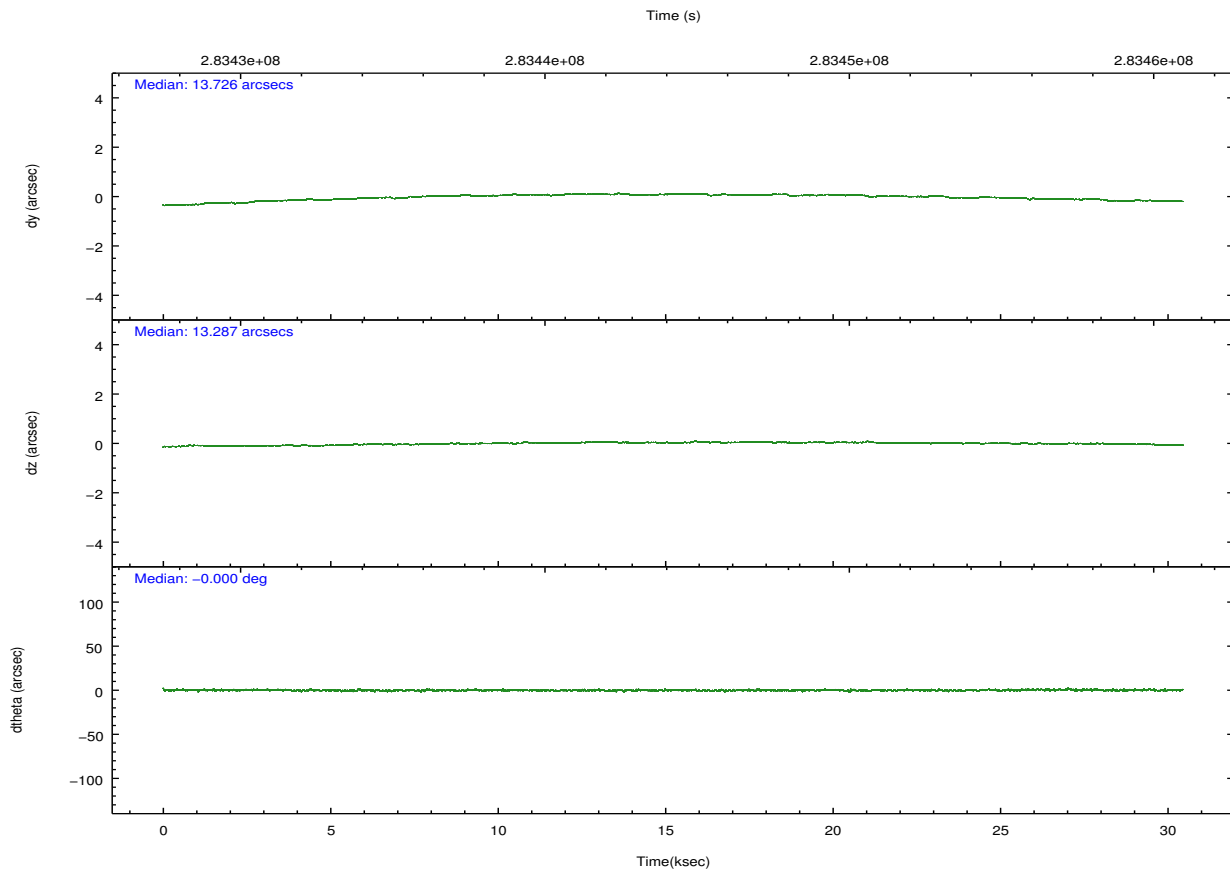
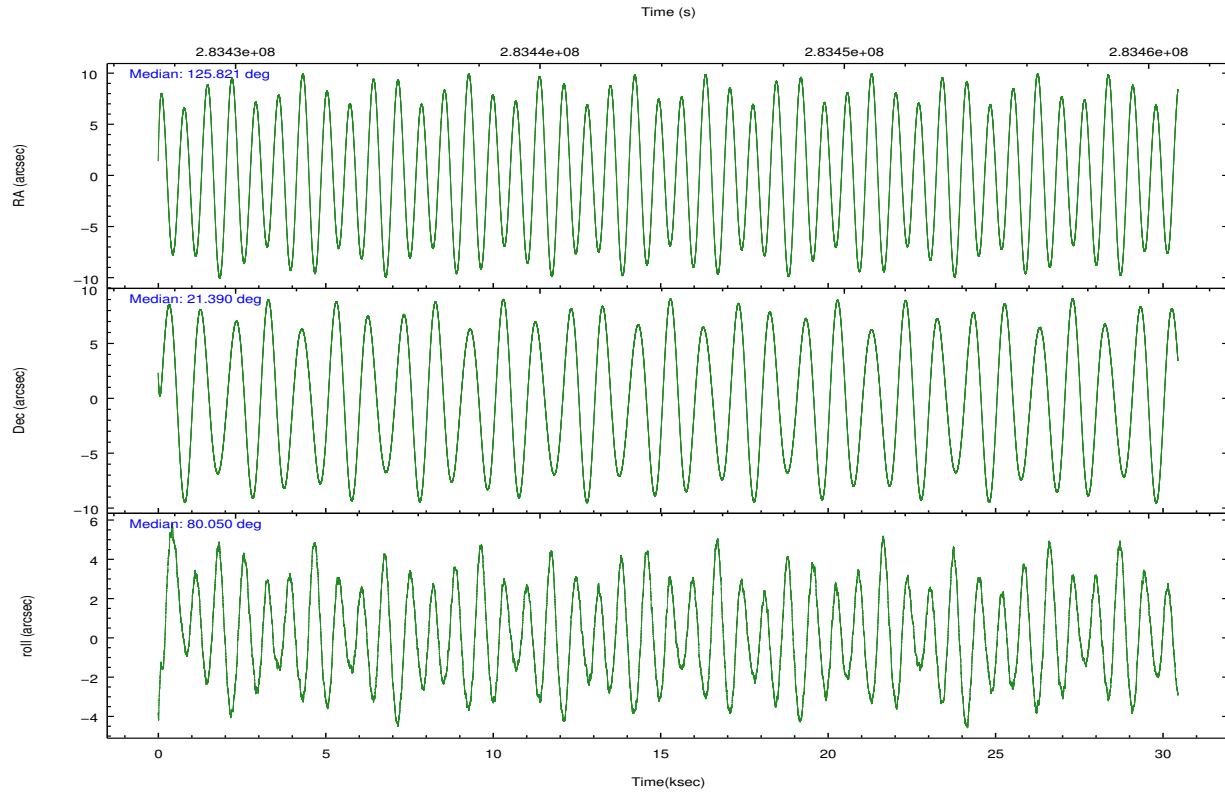
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8018	9147	7629	7258	7772
	3%	4%	3%	3%	3%
grade 1 events	116	110	145	133	103
	0%	0%	0%	0%	0%
grade 2 events	5438	5527	5354	4477	4752
	2%	2%	2%	2%	2%
grade 3 events	2452	2670	2440	2363	2539
	1%	1%	1%	1%	1%
grade 4 events	2358	2645	2386	2453	2549
	1%	1%	1%	1%	1%
grade 5 events	7893	8355	7272	9077	8714
	3%	4%	3%	4%	3%
grade 6 events	4225	5009	3988	4163	4894
	2%	2%	1%	1%	2%
grade 7 events	179461	174322	202743	191053	188800
	85%	83%	87%	86%	85%

## 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	125.831234	125.8209977418981	CCD I2 on	Y	Y
[deg] Pointing Dec	21.364294	21.39010521299597	CCD I3 on	Y	Y
[deg] Pointing Roll	79.844959	80.05736953394359	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	283429437.184000	283428373.31568	CCD S5 on	N	N
Observation start date	2006-12-25T10:22:52	2006-12-25T10:06:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	283459437.184000	283460884.77972	On-chip summing requested	N	N
Observation end date	2006-12-25T18:42:52	2006-12-25T19:08:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



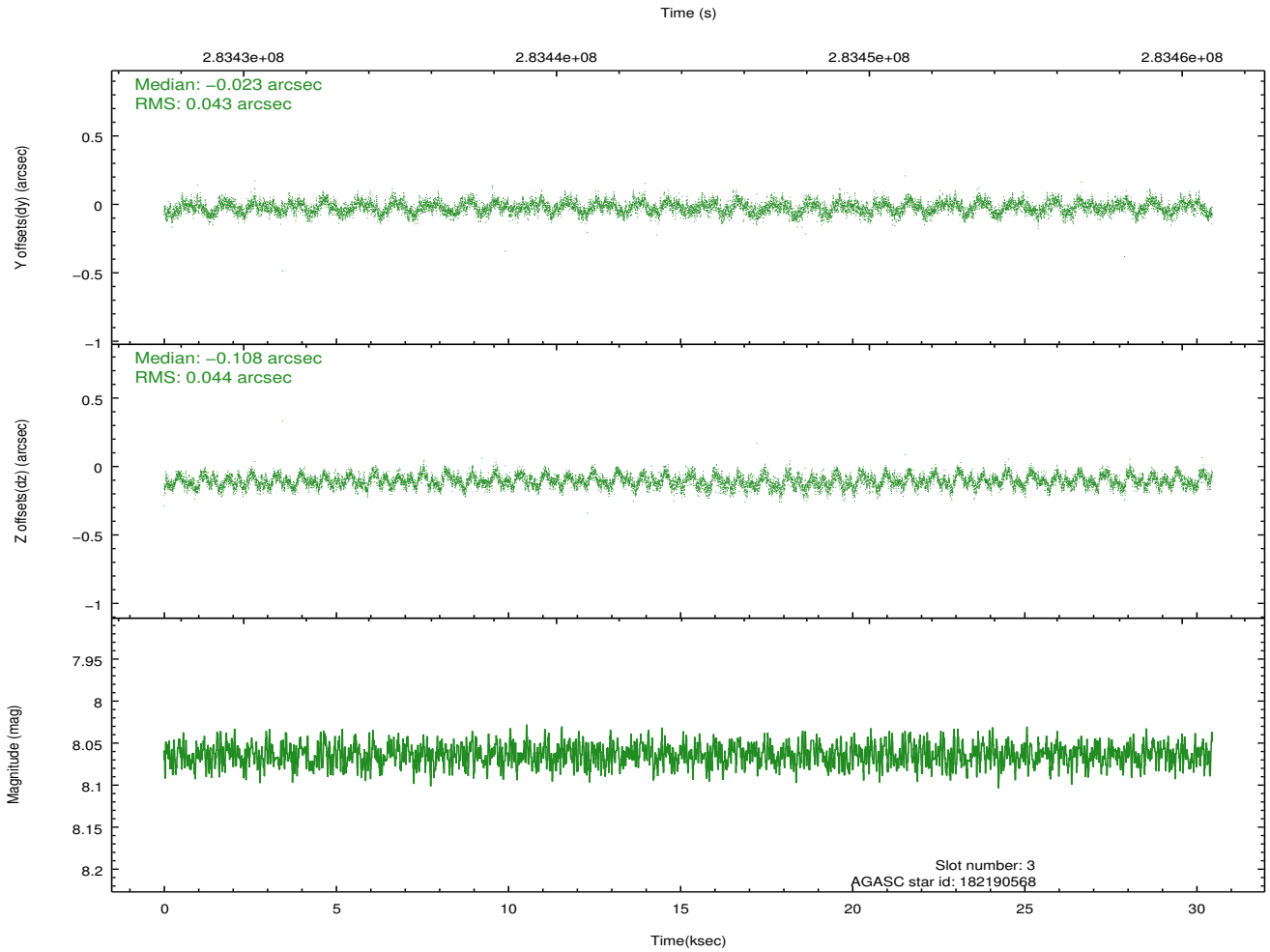
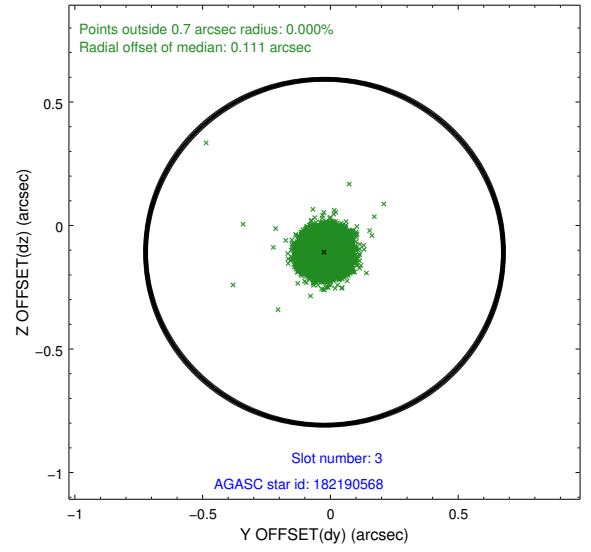
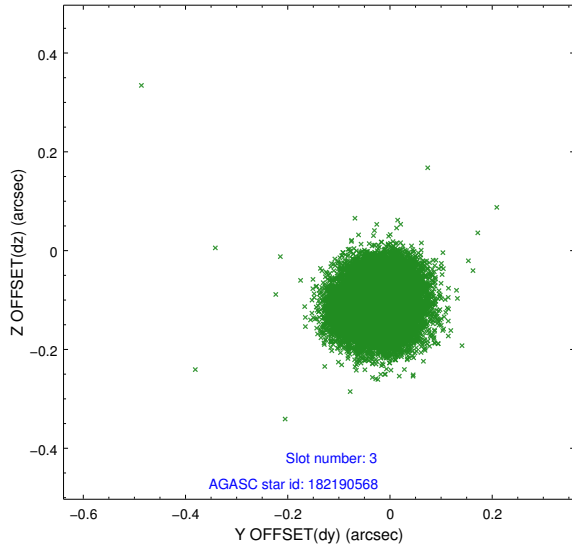


### Slot Statistics

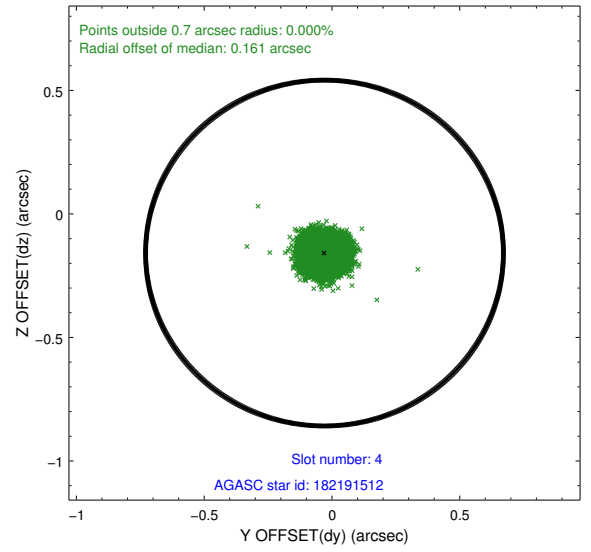
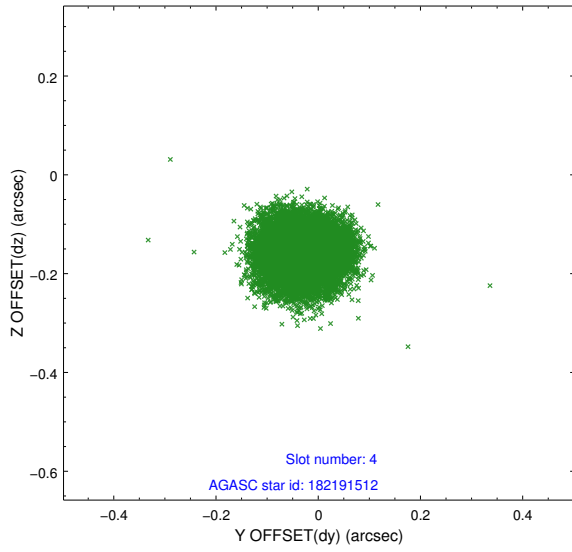
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	7426	0.002	-0.067	0.015	0.032	0.000000	0.000000	-768.39	-843.24
1	FID	ACIS-I-5	7.23	7426	-0.207	0.062	0.011	0.020	0.000000	0.000000	-1822.67	1060.74
2	FID	ACIS-I-6	7.25	7424	0.111	0.075	0.011	0.019	0.000000	0.000000	391.43	1705.27
3	GUIDE	182190568	8.06	14847	-0.023	-0.108	0.067	0.102	125.270475	22.031708	2038.31	2266.52
4	GUIDE	182191512	8.18	14846	-0.029	-0.158	0.059	0.095	125.905406	21.821214	1663.26	46.21
5	GUIDE	182202928	9.07	14844	-0.044	-0.024	0.078	0.129	125.551699	21.434953	86.15	966.95
6	GUIDE	182326096	9.34	14842	0.001	0.124	0.100	0.163	126.208179	21.812453	1811.93	-955.30
7	GUIDE	182332968	8.70	14845	0.099	0.166	0.078	0.125	126.434106	21.190606	-254.23	-2101.35

## 2.4 Star Slots

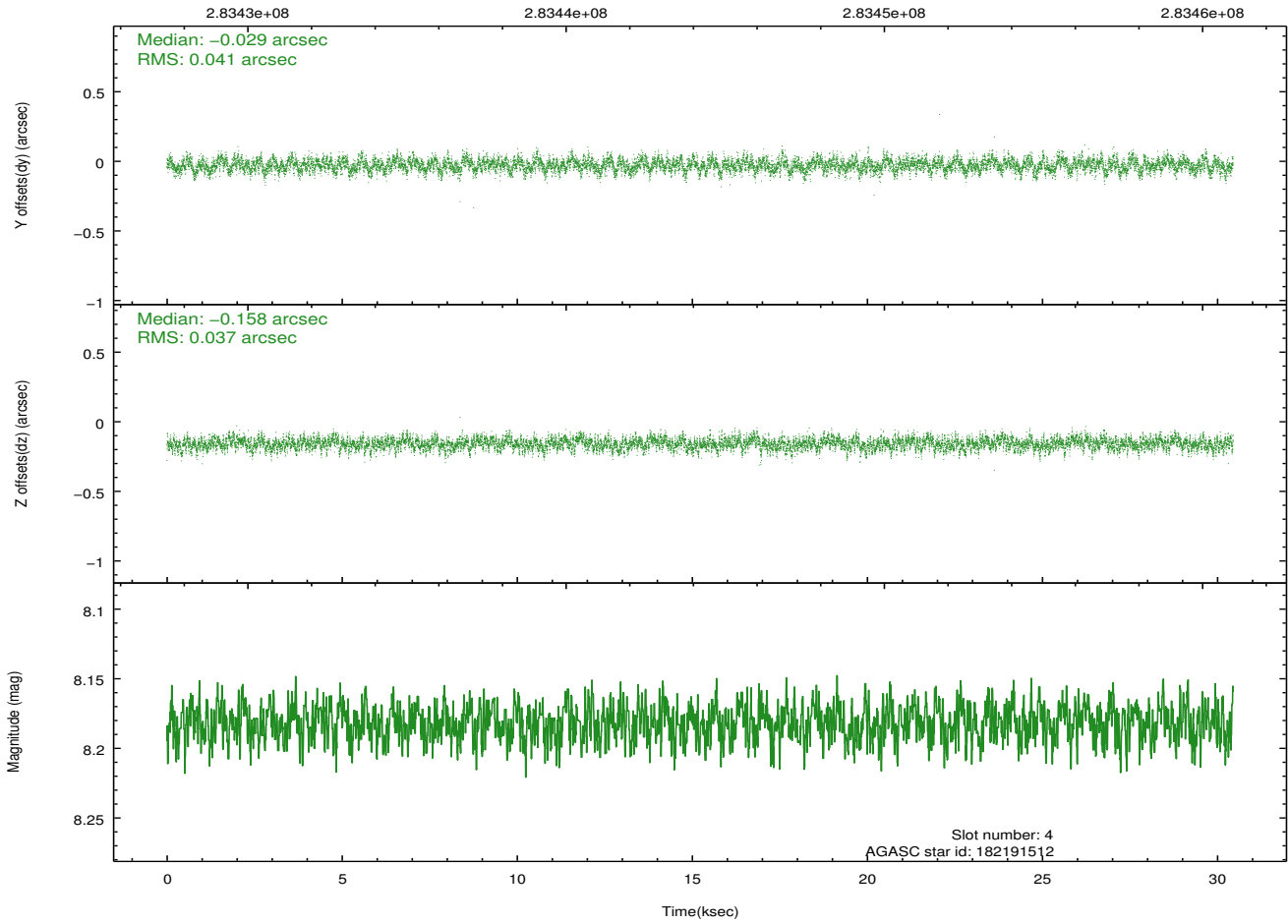
### 2.4.1 Slot 3



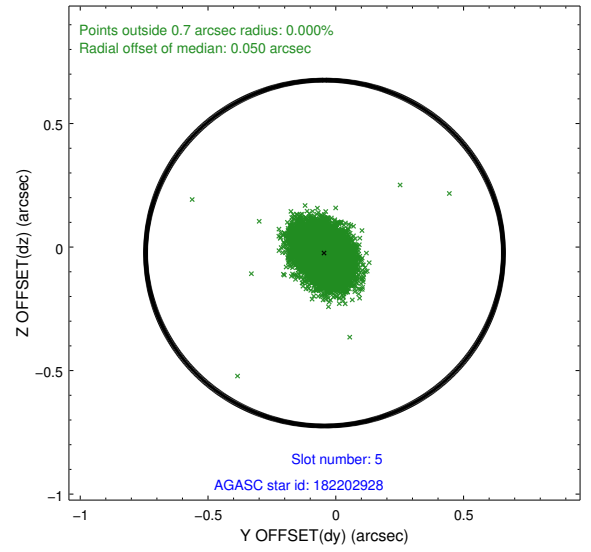
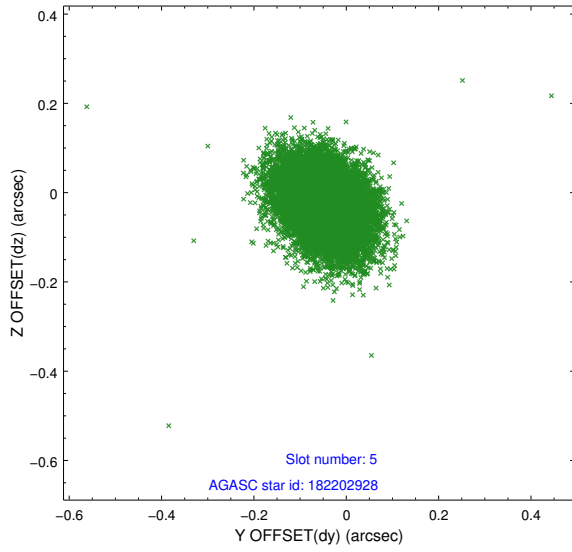
## 2.4.2 Slot 4



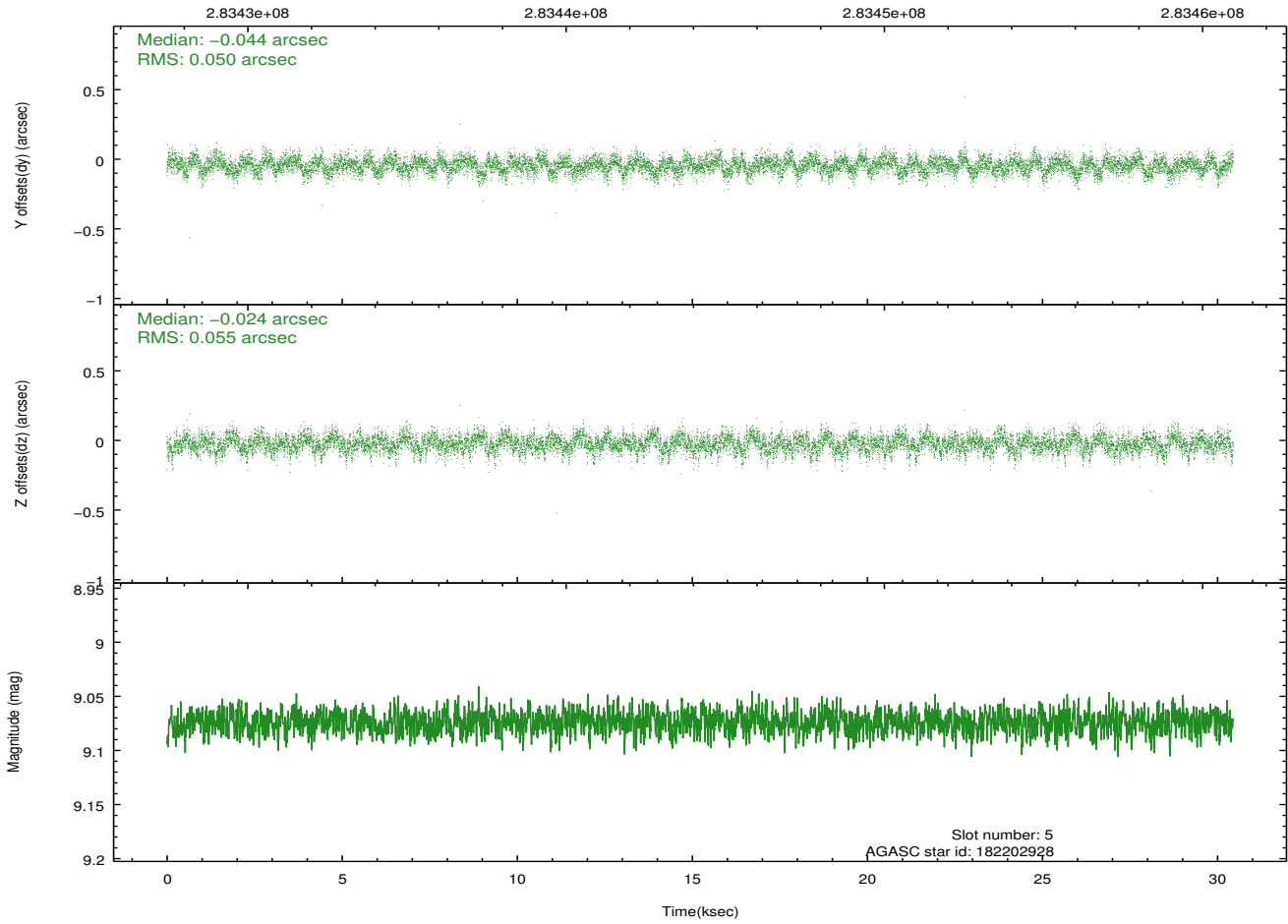
Time (s)



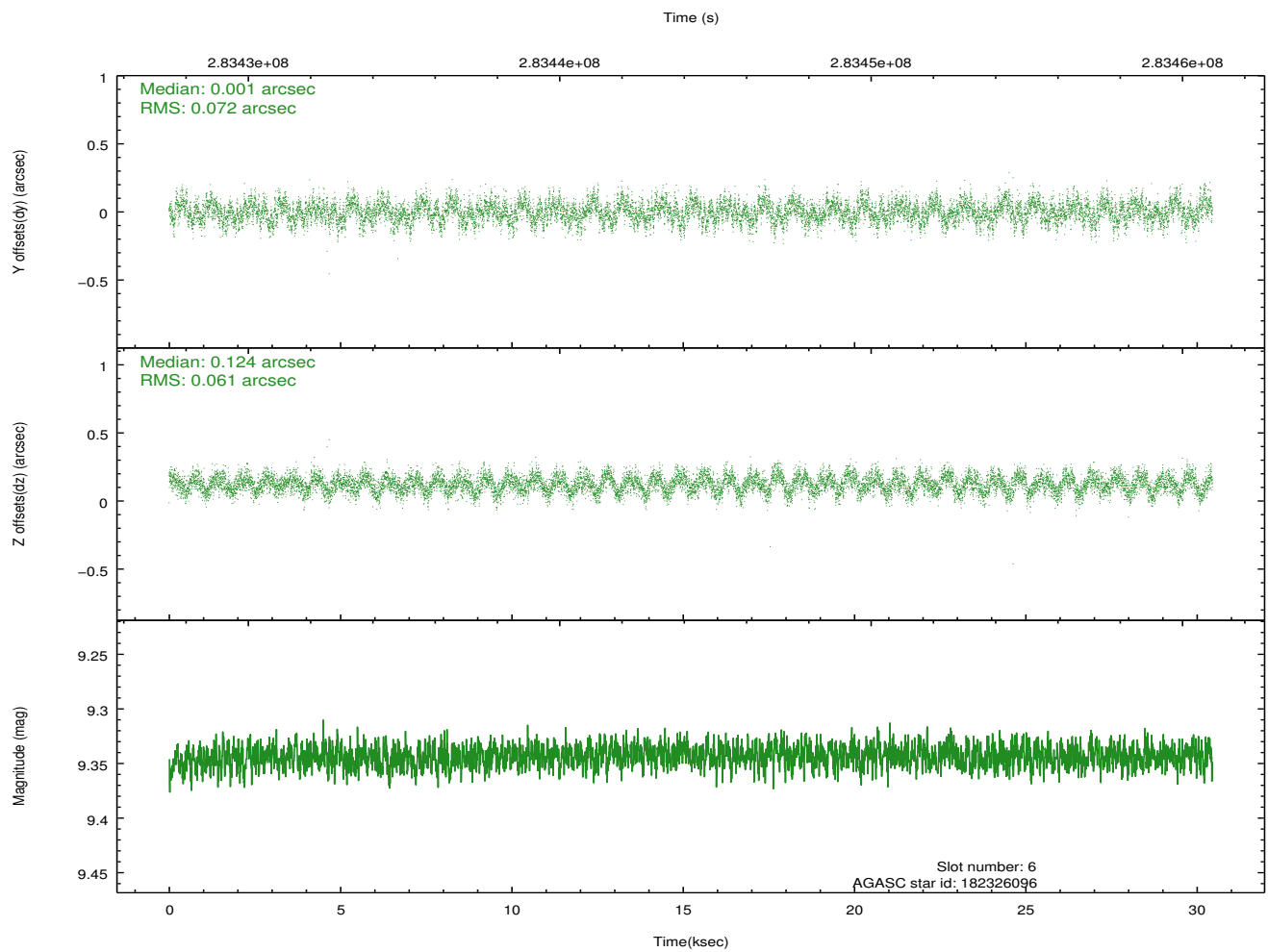
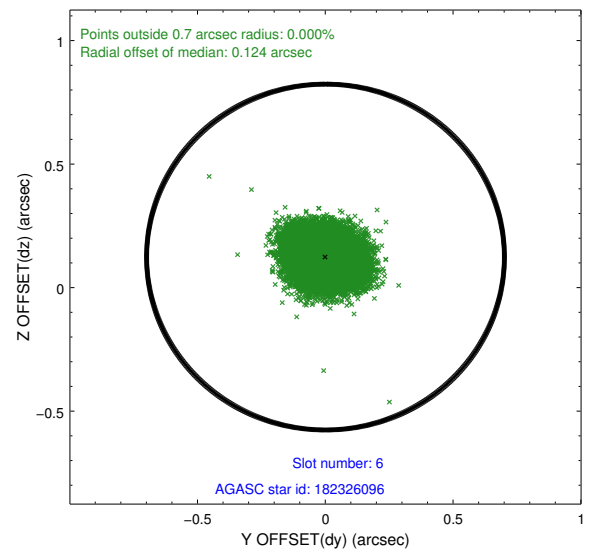
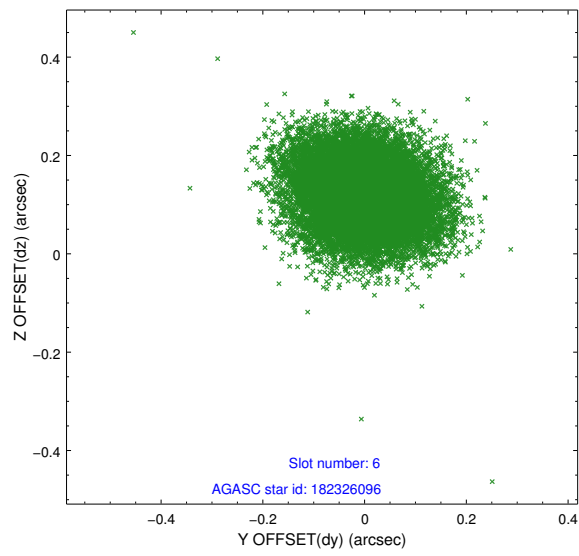
### 2.4.3 Slot 5



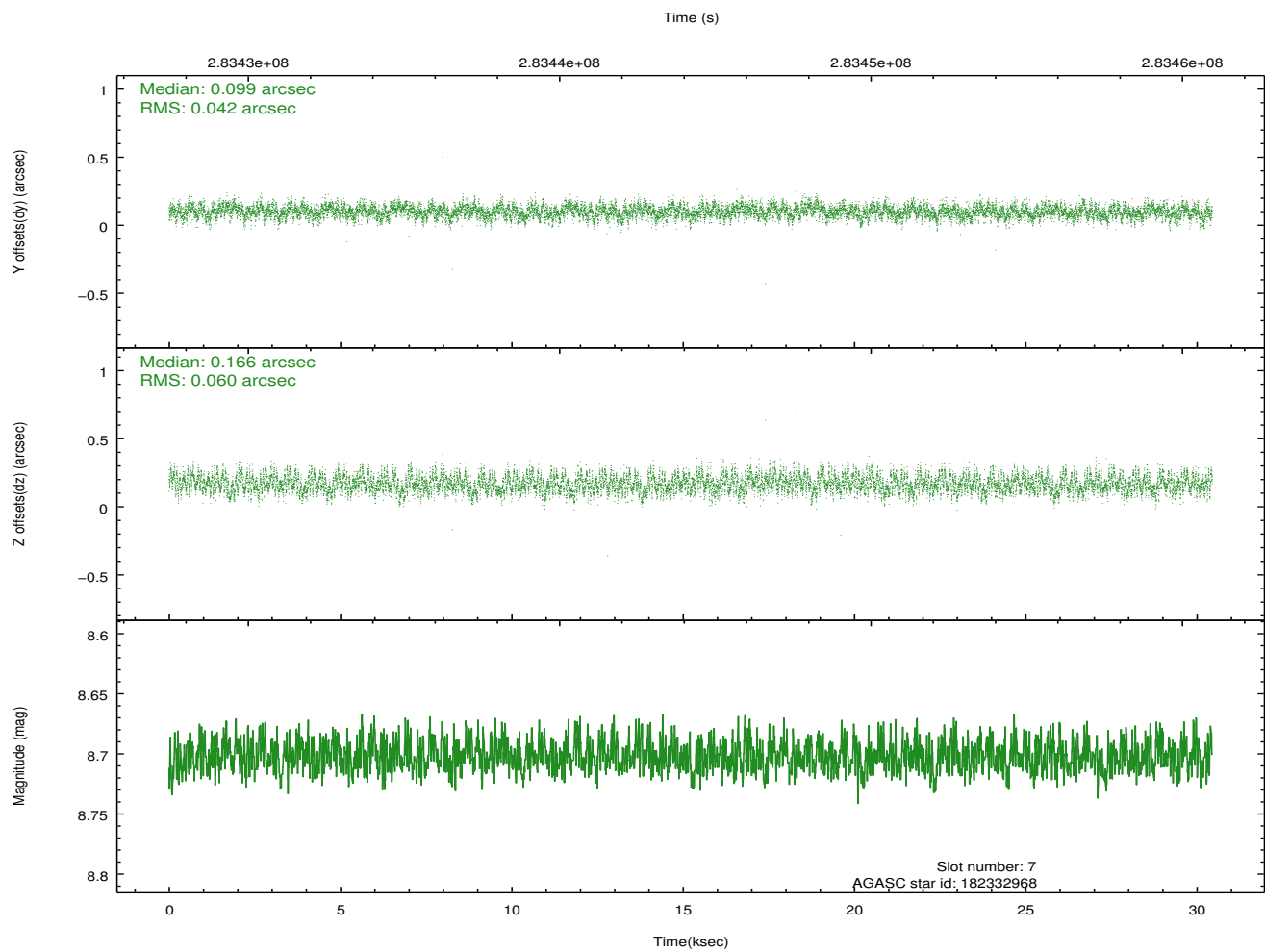
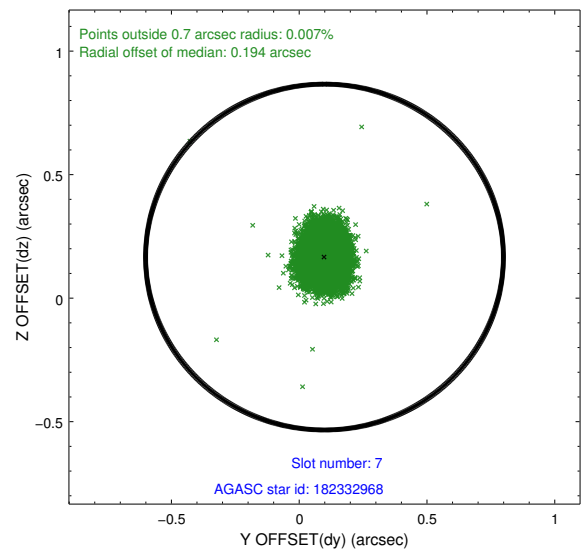
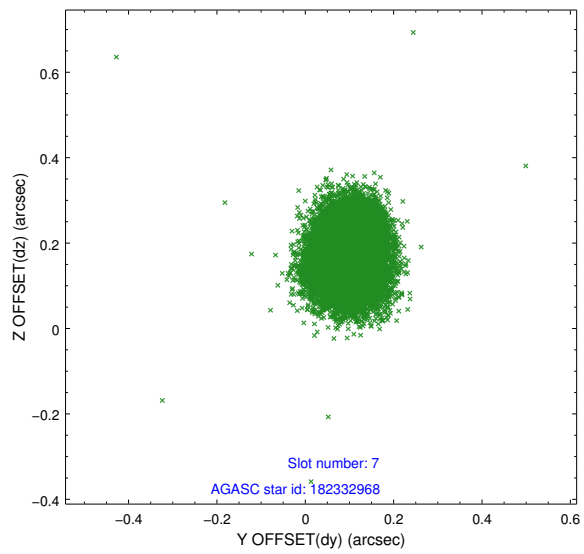
Time (s)



## 2.4.4 Slot 6

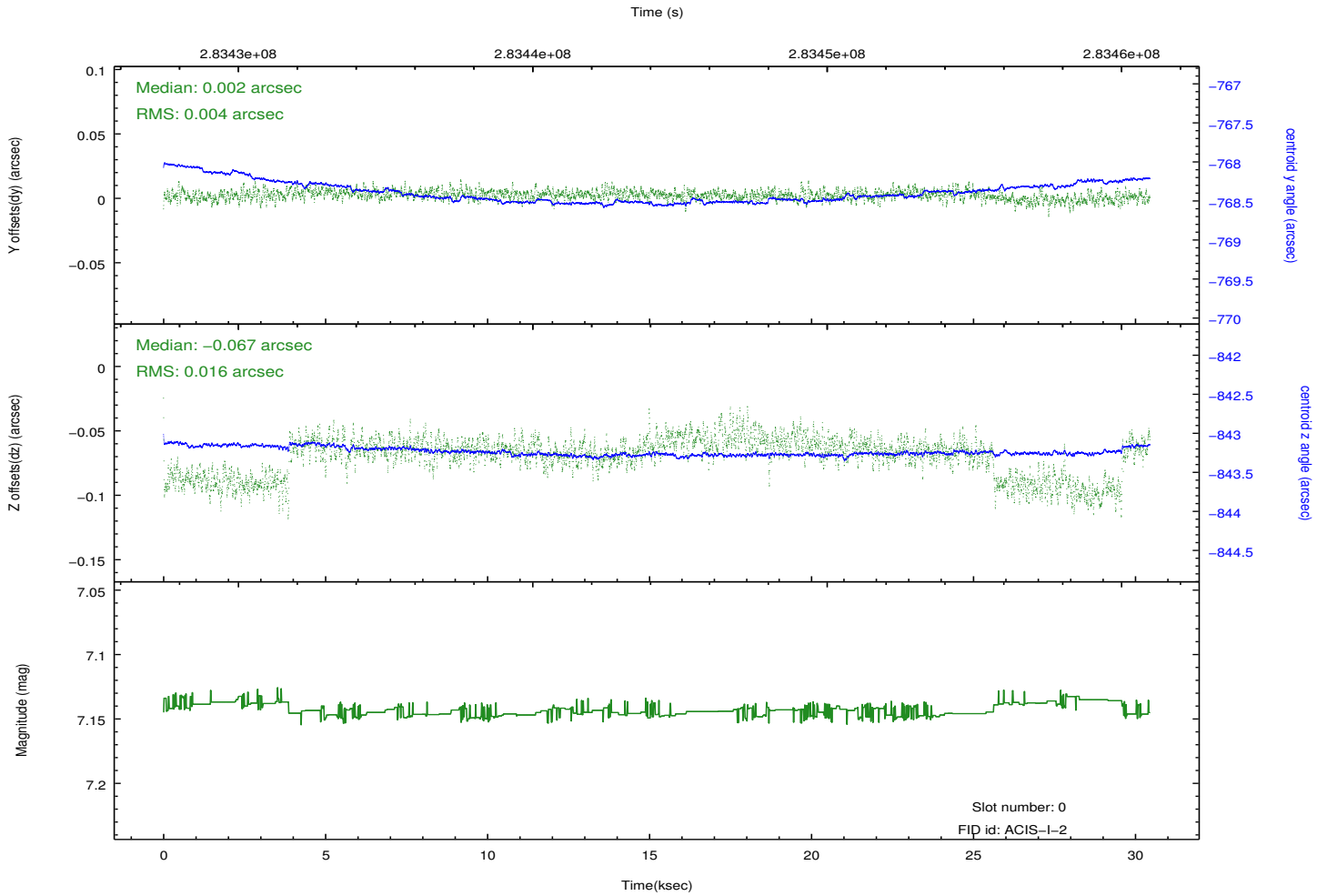
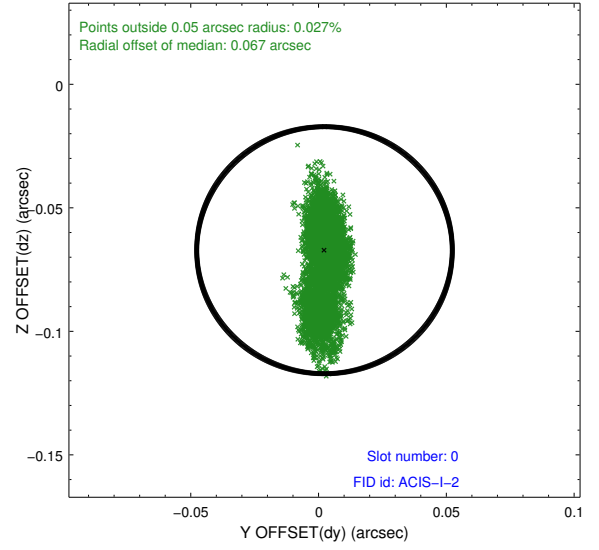
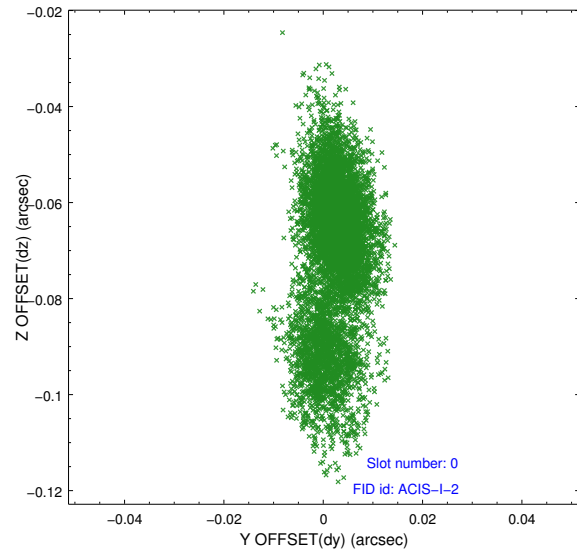


## 2.4.5 Slot 7

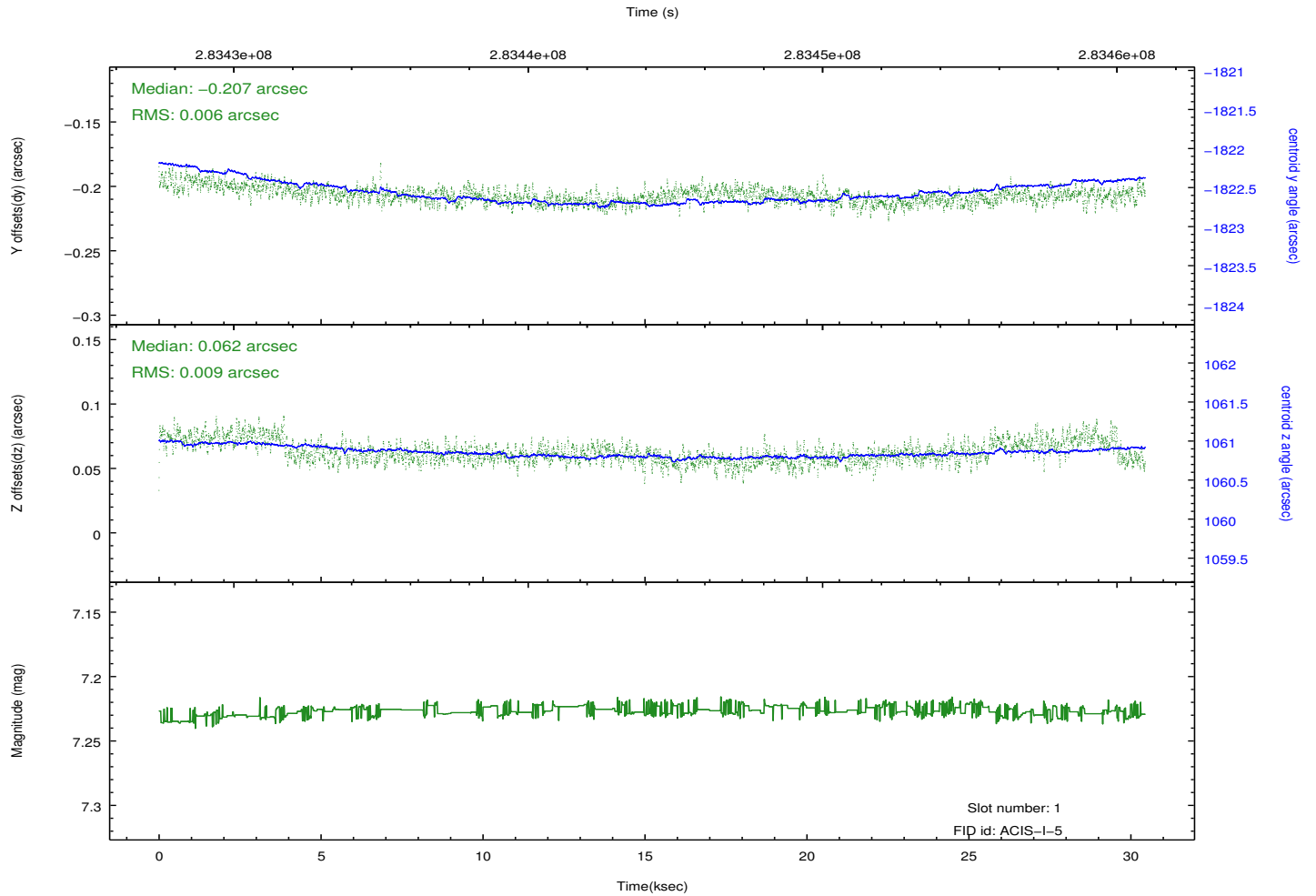
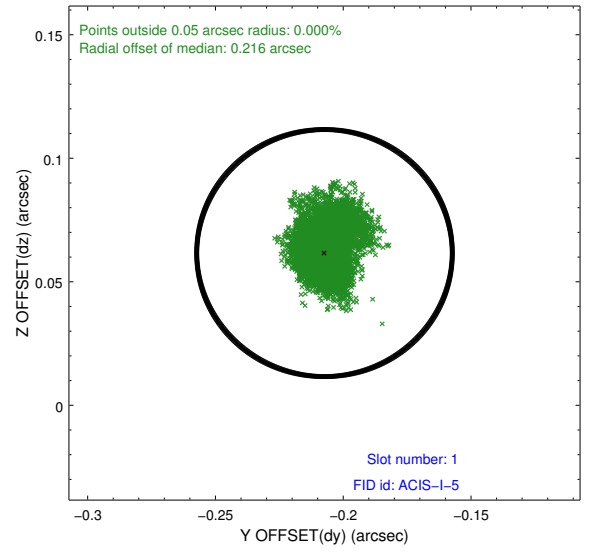
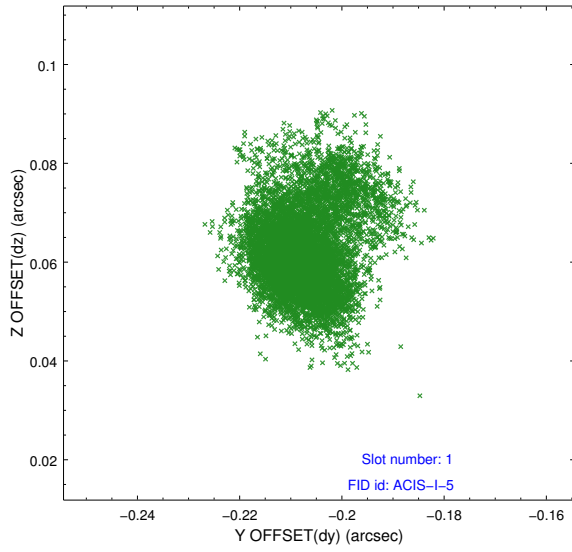


## 2.5 FID Slots

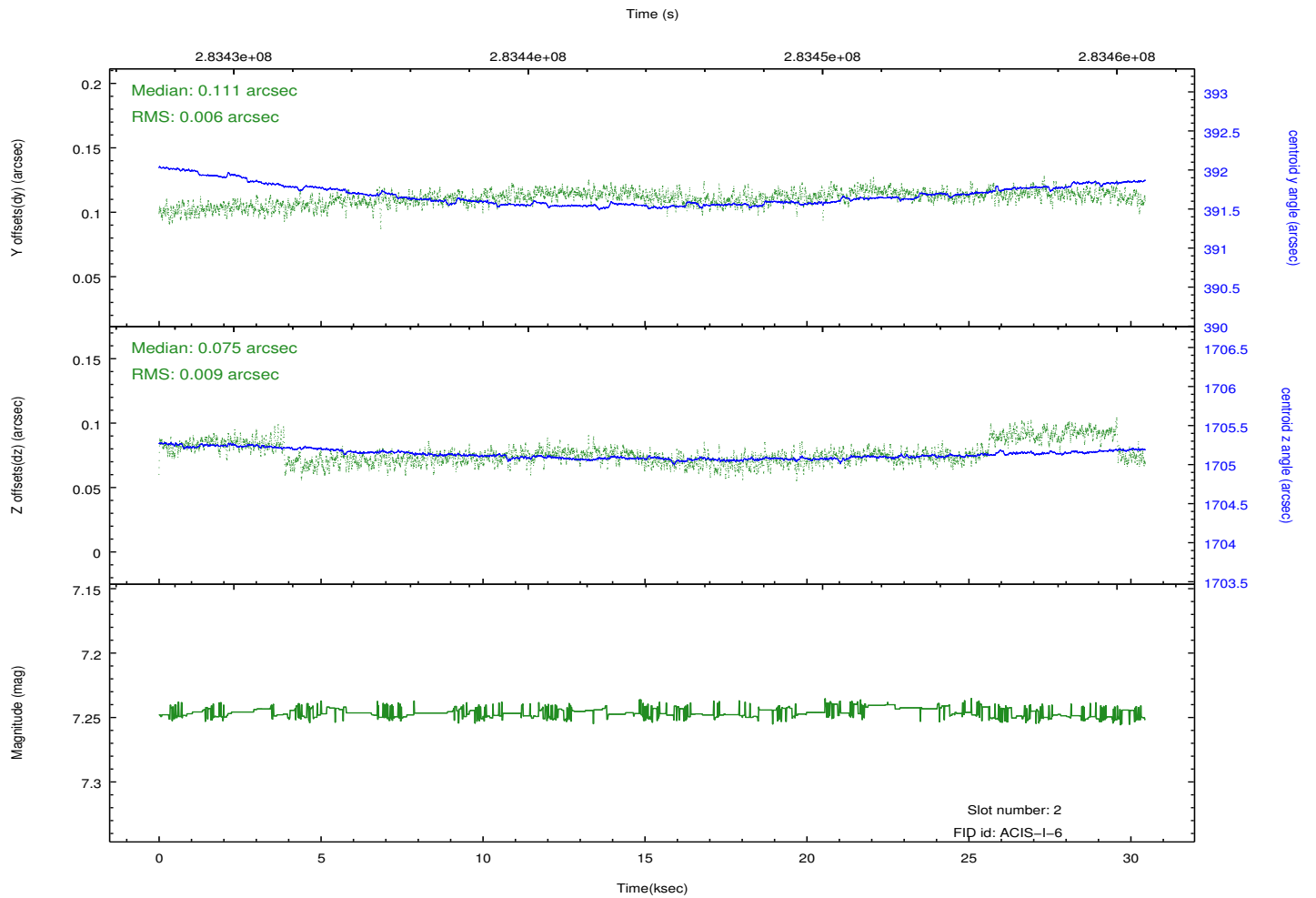
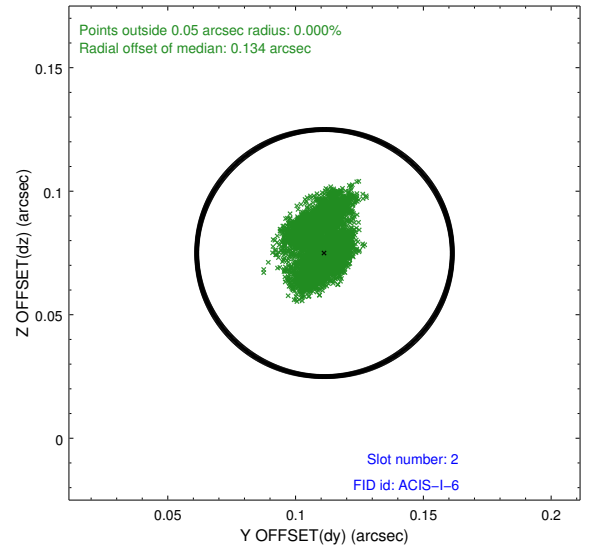
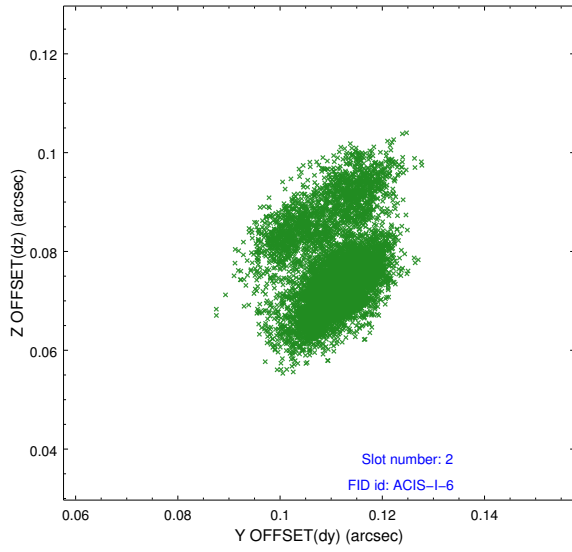
### 2.5.1 Slot 0



## 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)	2012.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.0296592

## A.2 Comments