

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9723 - L2 Version 2  
Chandra X-Ray Center

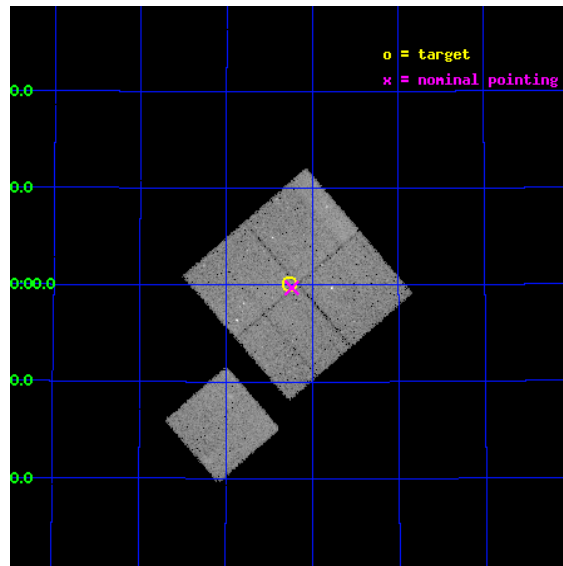
L2 Processing Date : May 16 2012

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# 1 Front

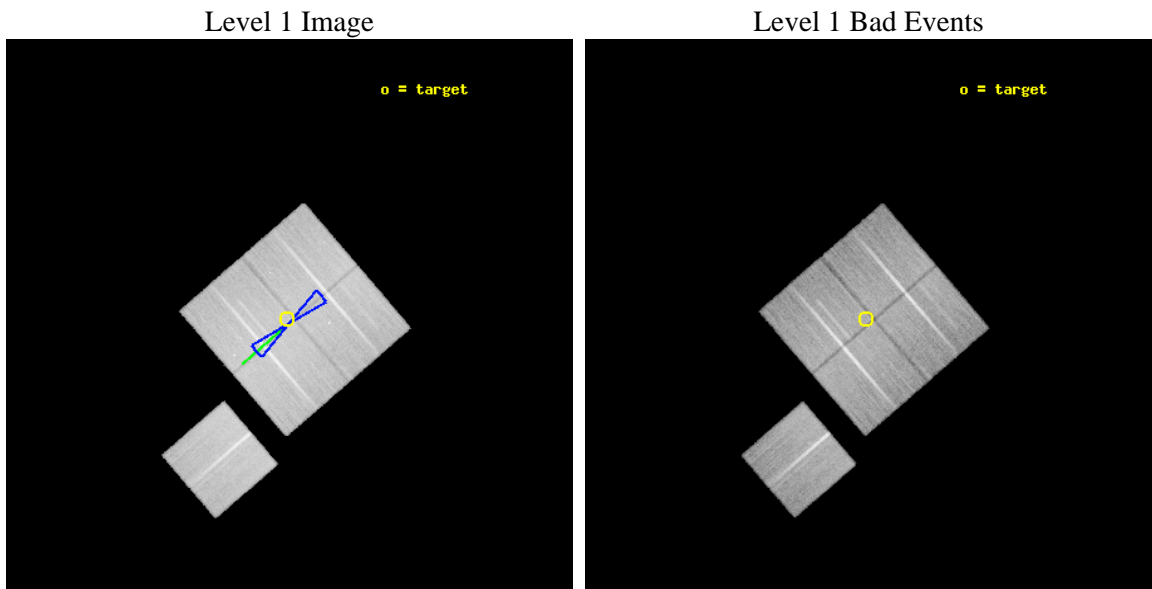
seq_num	900796	Sequence number
obs_id	9723	Observation id
title	The Evolution of Faint AGN at High Redshift	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AEGIS-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.064583	Observer's specified target RA [deg]
dec_targ	53.002694	Observer's specified target Dec [deg]
ra_nom	215.0592339263	Nominal RA [deg]
dec_nom	52.995277837178	Nominal Dec [deg]
roll_nom	229.21296447528	Nominal Roll [deg]
revision	2	Processing version of data
ontime	34924.559268355	Sum of GTIs [s]
livetime	34468.244190428	Livetime [s]
ontime0	34924.559288323	Sum of GTIs [s]
ontime1	34927.700268626	Sum of GTIs [s]
ontime2	34924.559367895	Sum of GTIs [s]
ontime3	34924.559268355	Sum of GTIs [s]
ontime6	34921.418297946	Sum of GTIs [s]
l2events	117272	Number of level 2 events



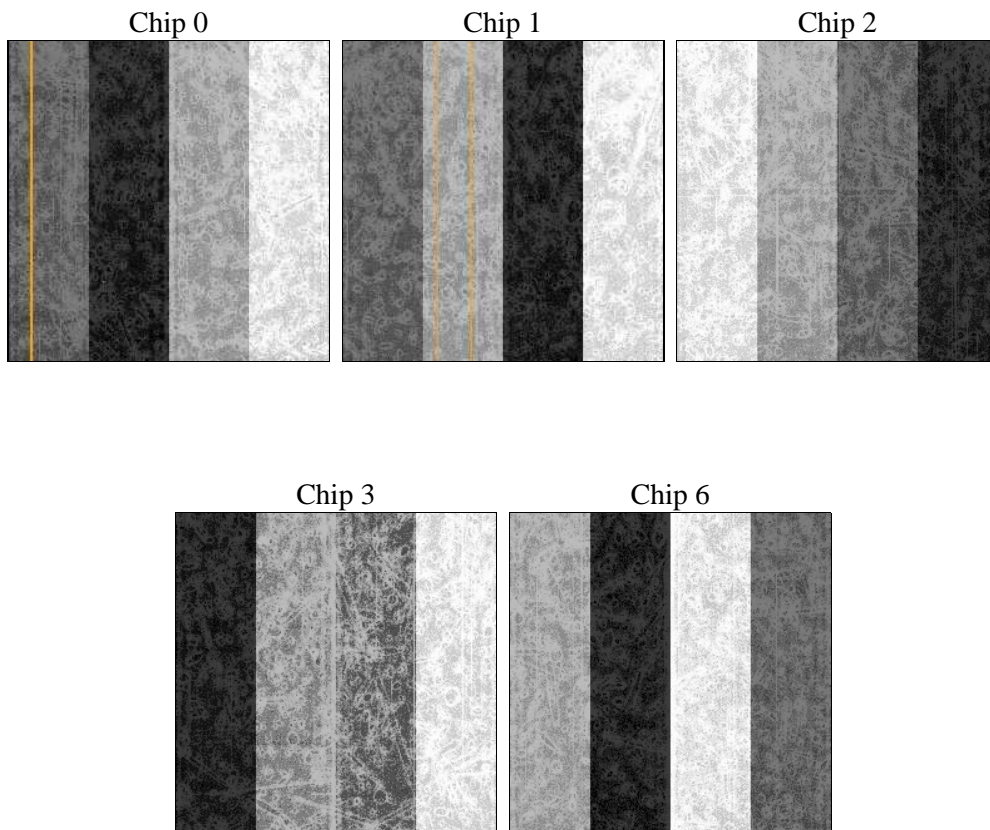
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34752.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	34924.559268355	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	34924.559288323	Sum of GTIs [s]
date	2012-05-16T15:37:49	Date and time of file creation	ontime1	34927.700268626	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	34924.559367895	Sum of GTIs [s]
			ontime3	34924.559268355	Sum of GTIs [s]
			ontime6	34921.418297946	Sum of GTIs [s]
			l1events	1345192	Number of level 1 events

### 2.1.4 Events

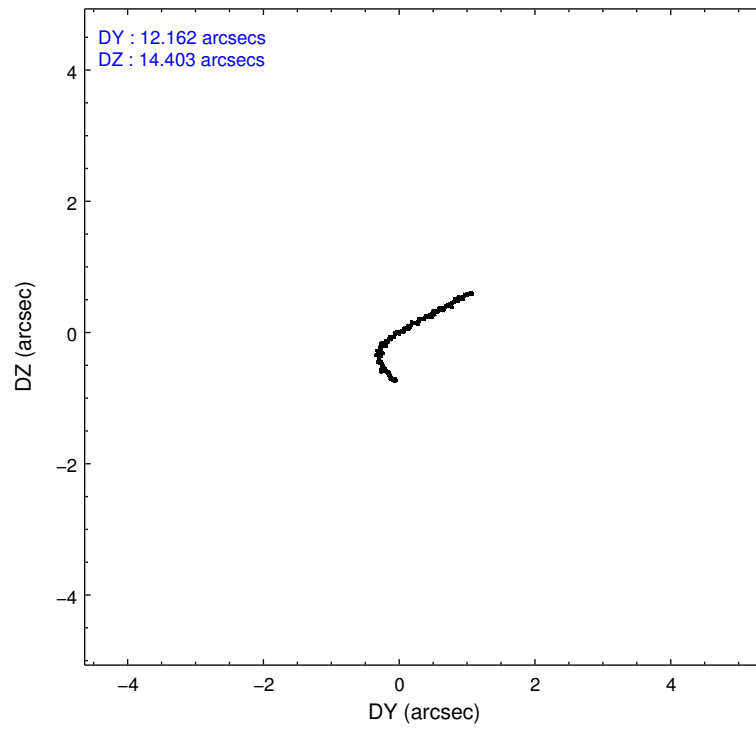
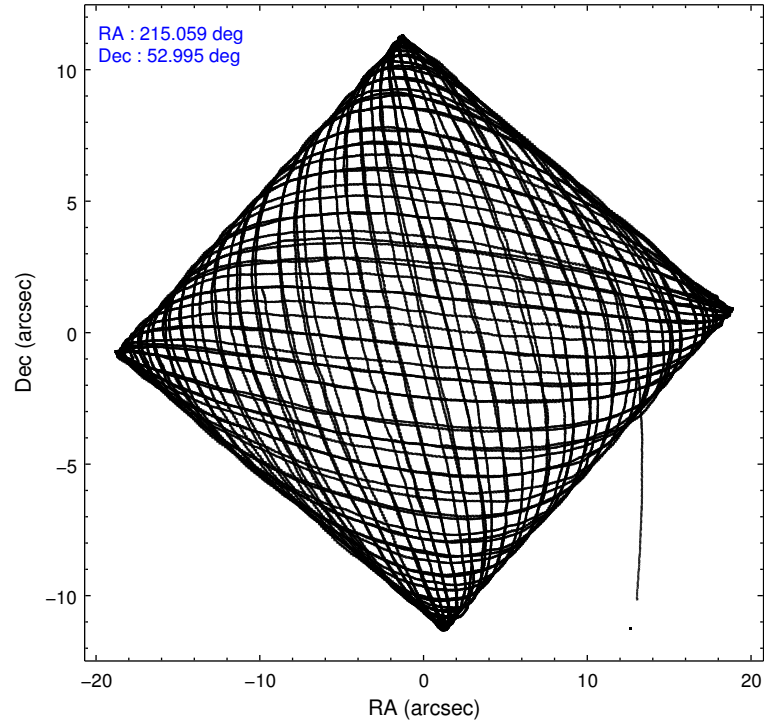
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	255498	255960	284813	272051	276870
rejected events	227249	224303	257887	245493	248961
rejected %	88%	87%	90%	90%	89%

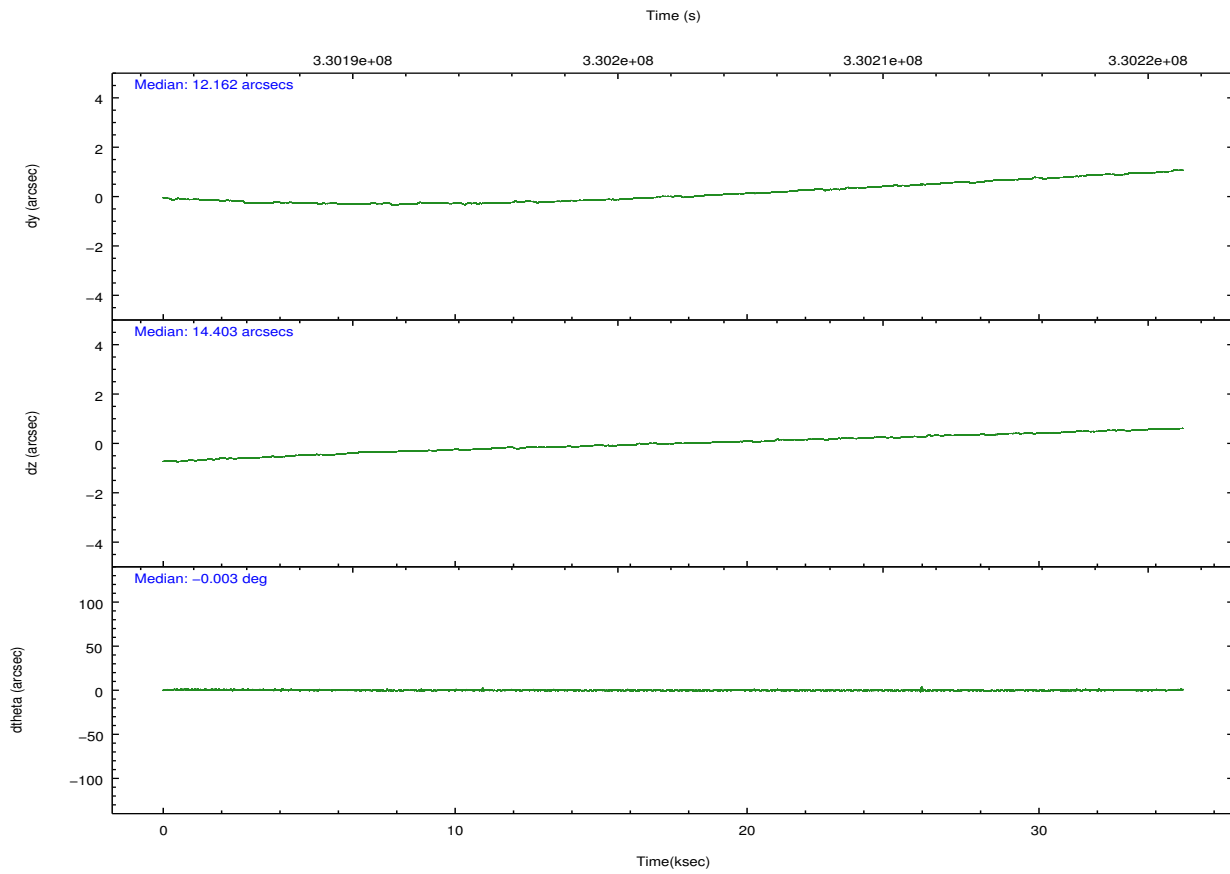
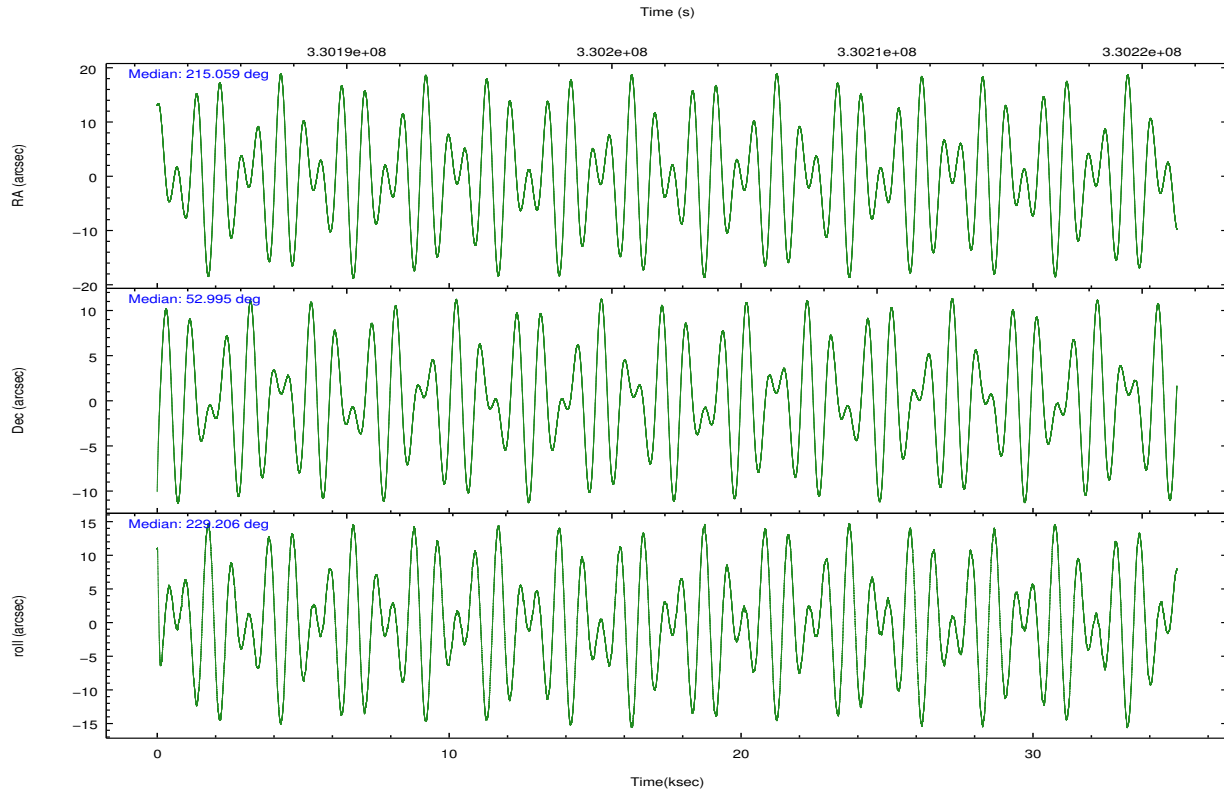
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9989	11558	9549	9528	9661
	3%	4%	3%	3%	3%
grade 1 events	144	178	166	167	126
	0%	0%	0%	0%	0%
grade 2 events	6842	7111	6573	5862	6220
	2%	2%	2%	2%	2%
grade 3 events	3186	3354	2911	2979	3046
	1%	1%	1%	1%	1%
grade 4 events	2923	3324	3015	2973	2985
	1%	1%	1%	1%	1%
grade 5 events	9952	11152	9338	11342	10917
	3%	4%	3%	4%	3%
grade 6 events	5371	6380	4932	5273	6045
	2%	2%	1%	1%	2%
grade 7 events	217091	212903	248329	233927	237870
	84%	83%	87%	85%	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	215.067608	215.0592339262963	CCD I2 on	Y	Y
[deg] Pointing Dec	53.022319	52.99527783717803	CCD I3 on	Y	Y
[deg] Pointing Roll	228.997590	229.2129644752834	CCD S0 on	N	N
[deg] Roll angle	50.000000	50.000000	CCD S1 on	N	N
[deg] Roll tolerance	10.000000	10.000000	CCD S2 on	O1	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S4 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S5 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	-0.005018542100998502	On-chip summing requested	N	N
[s] Observation start time (MET)	330184787.184000	330183760.30307	Subarray requested	NONE	NONE
Observation start date	2008-06-18T13:58:42	2008-06-18T13:42:40	Alternating exposures requested	N	N
[s] Observation end time (MET)	330219539.184000	330220420.96736	[s] Primary exposure time	0.000000	3.1
Observation end date	2008-06-18T23:37:54	2008-06-18T23:53:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



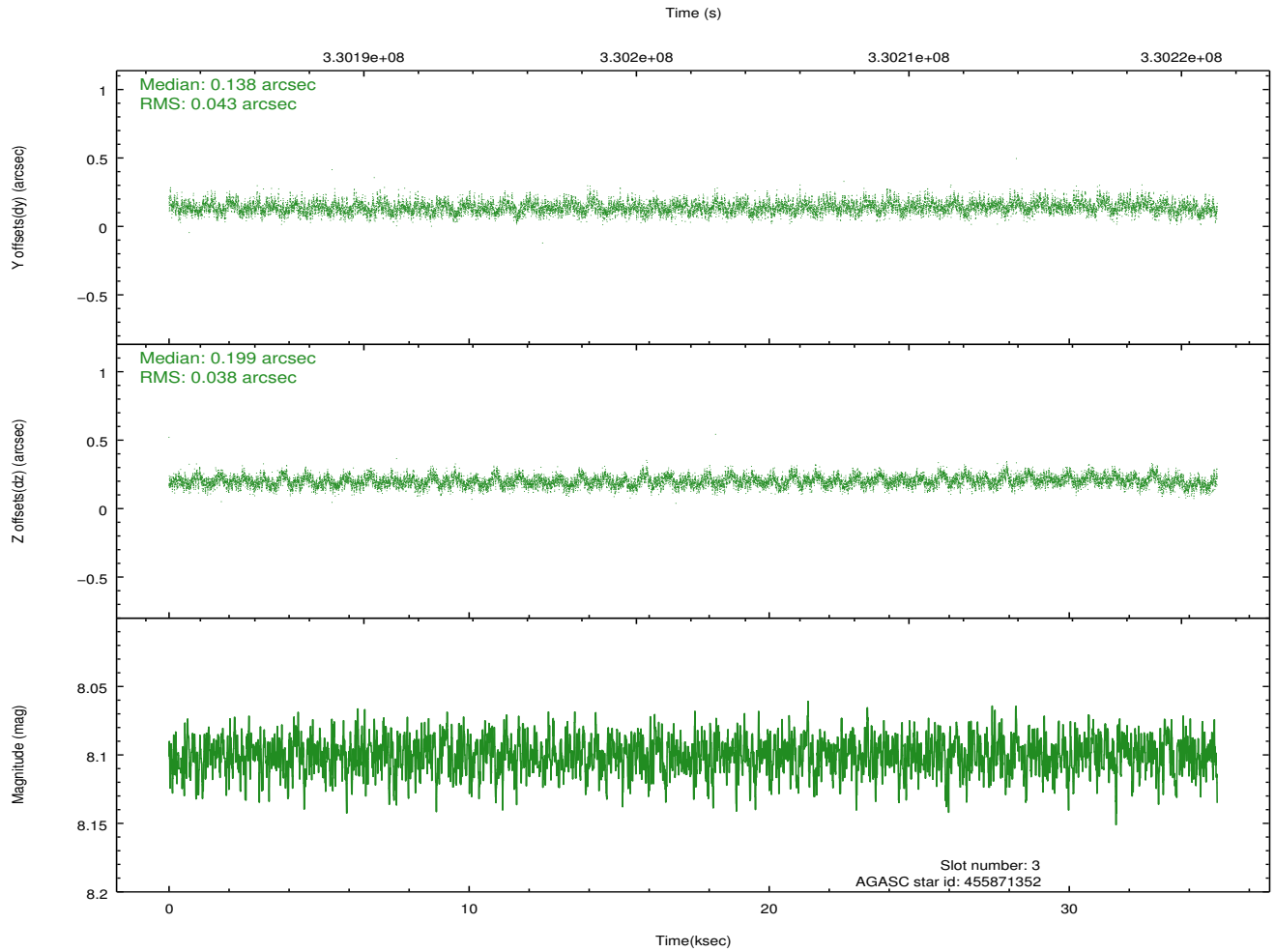
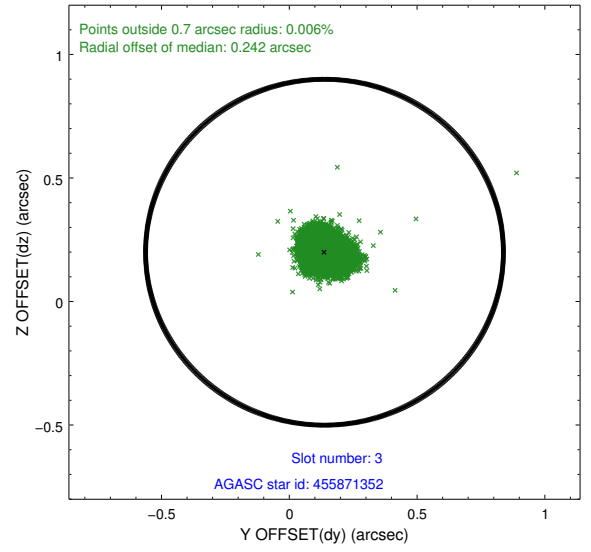
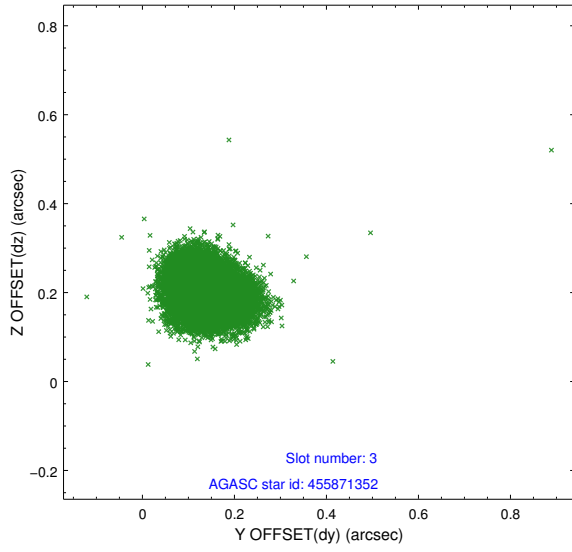


### Slot Statistics

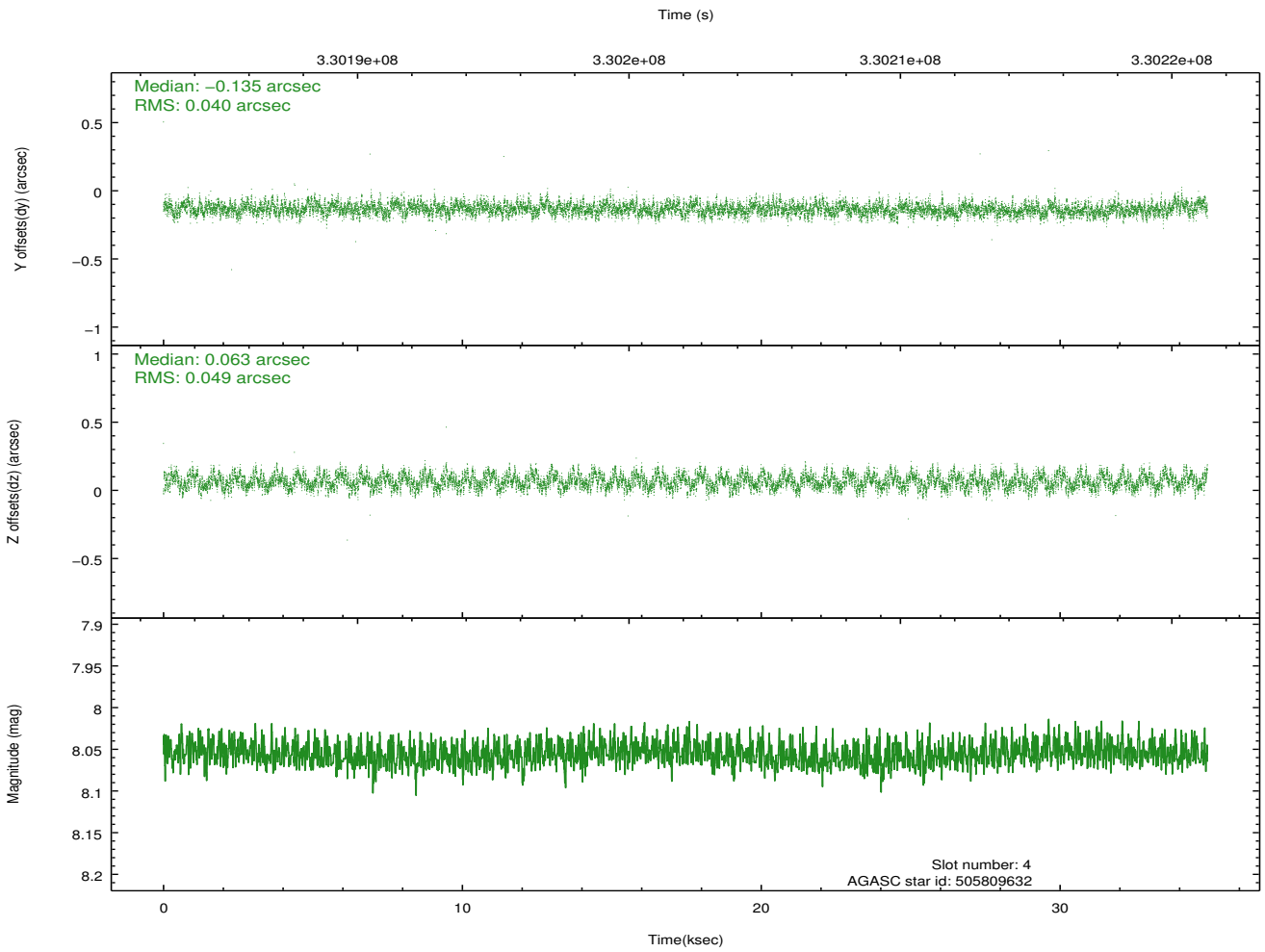
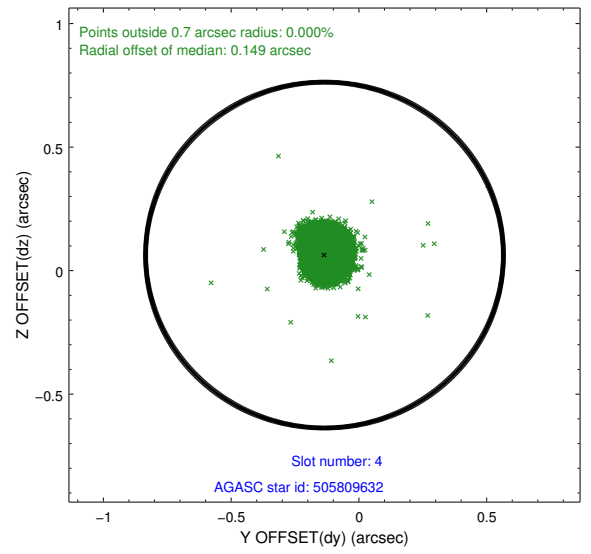
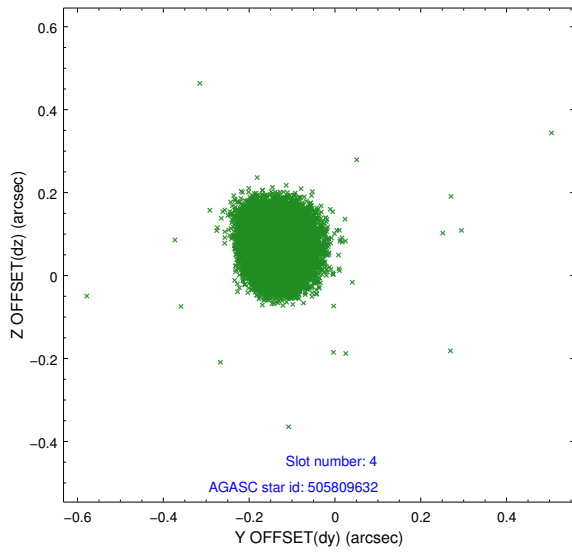
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	8521	-0.000	0.032	0.016	0.033	0.000000	0.000000	927.23	-837.93
1	FID	ACIS-I-5	7.00	8521	-0.159	0.023	0.015	0.031	0.000000	0.000000	-1821.04	1059.50
2	FID	ACIS-I-6	7.01	8520	0.069	0.018	0.015	0.025	0.000000	0.000000	392.77	1704.07
3	GUIDE	455871352	8.10	17037	0.138	0.199	0.060	0.098	215.099961	52.172669	2261.72	2061.41
4	GUIDE	505809632	8.06	17037	-0.135	0.063	0.068	0.107	215.499426	53.521185	-1963.51	-482.54
5	GUIDE	505812088	8.14	17037	0.078	-0.101	0.063	0.103	214.186617	53.263562	580.85	-2008.99
6	GUIDE	505812376	7.65	17041	0.062	-0.204	0.050	0.082	214.039537	52.937930	1681.17	-1494.47
7	GUIDE	505815928	8.31	17029	-0.148	0.041	0.062	0.098	216.234742	53.074559	-1813.56	1767.99

## 2.4 Star Slots

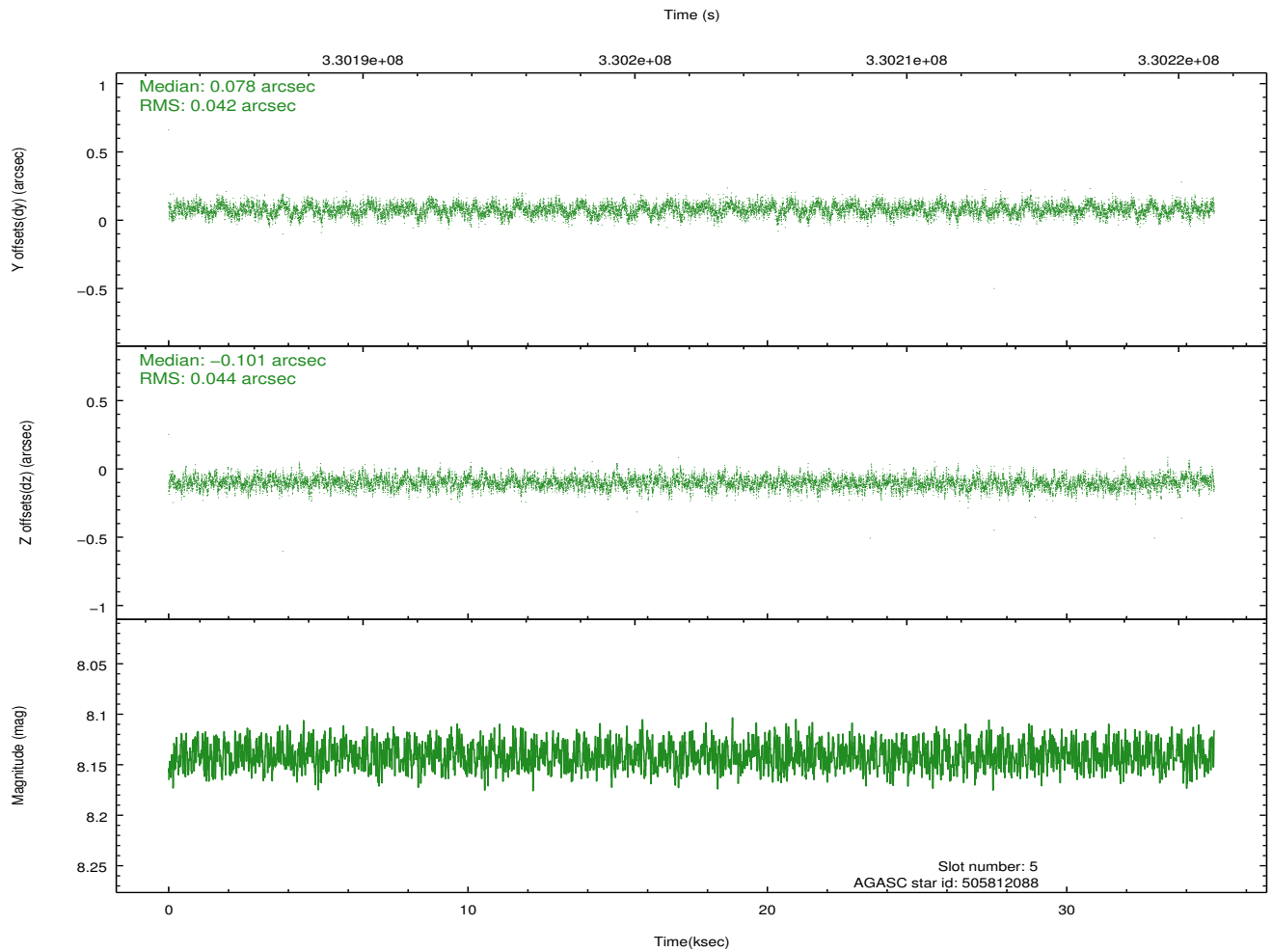
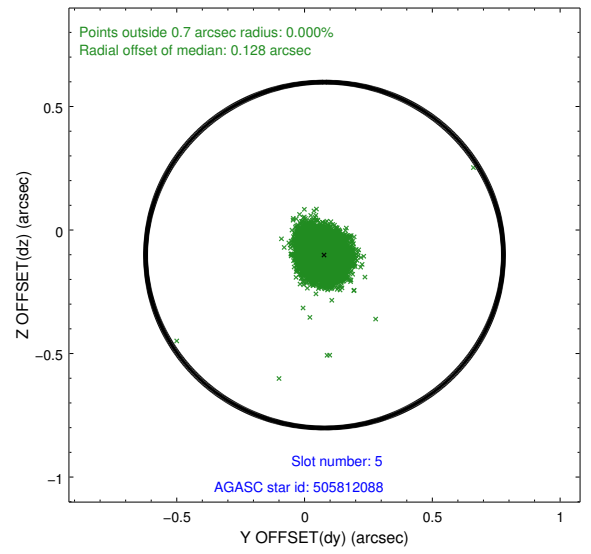
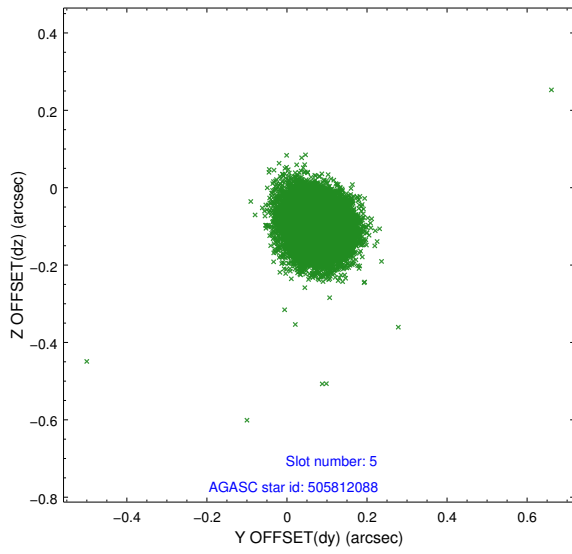
### 2.4.1 Slot 3



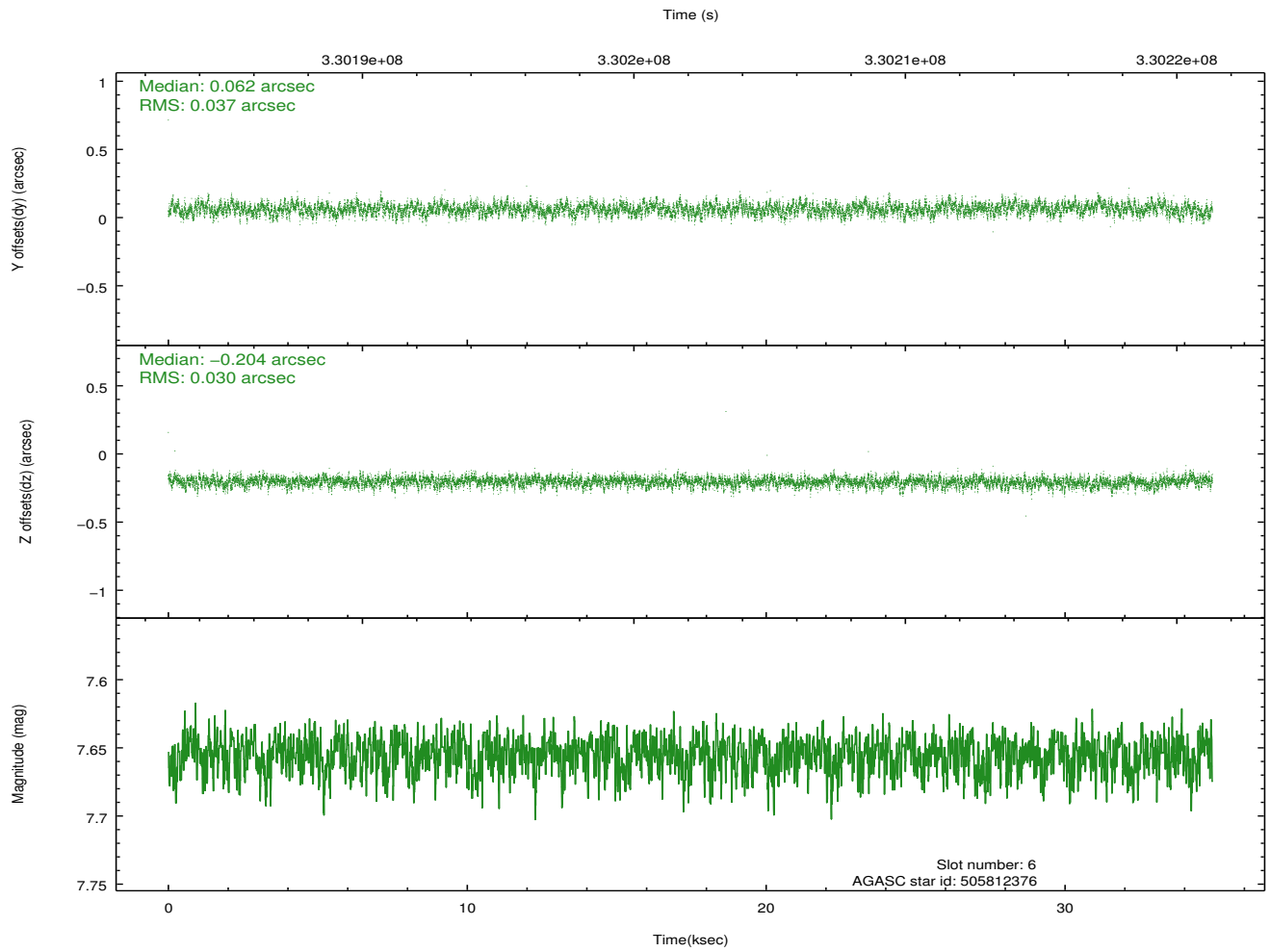
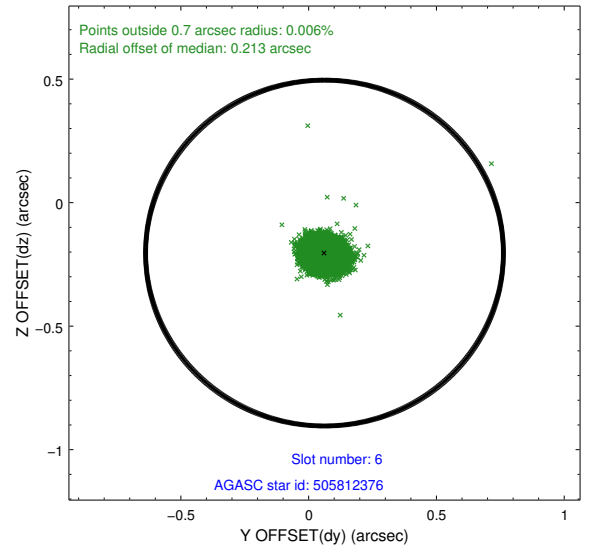
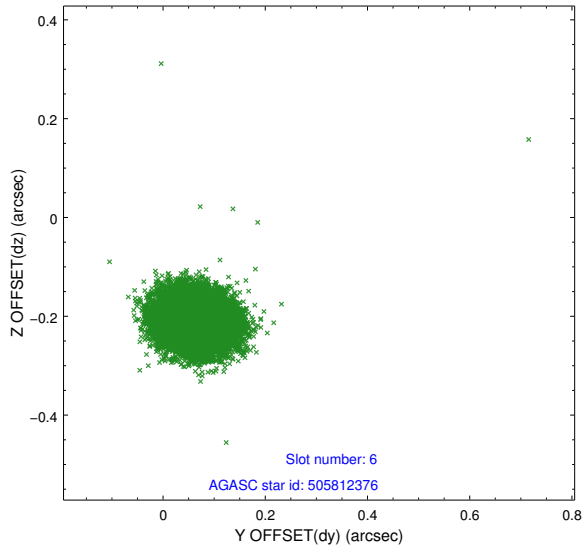
### 2.4.2 Slot 4



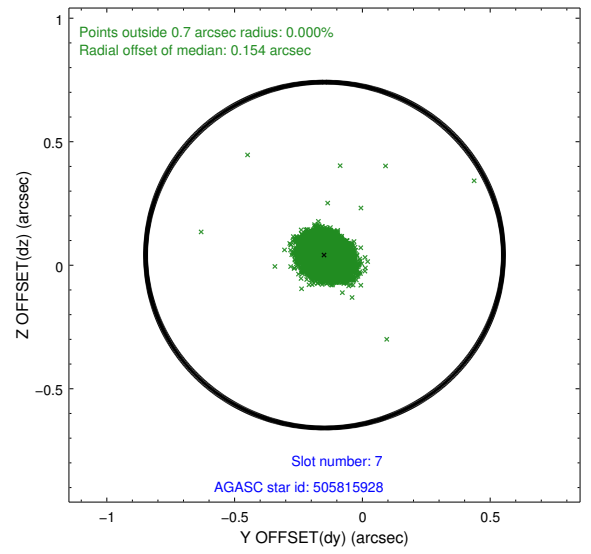
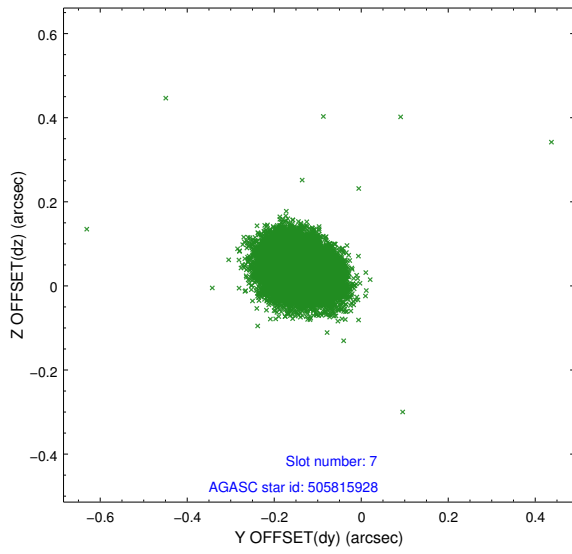
### 2.4.3 Slot 5



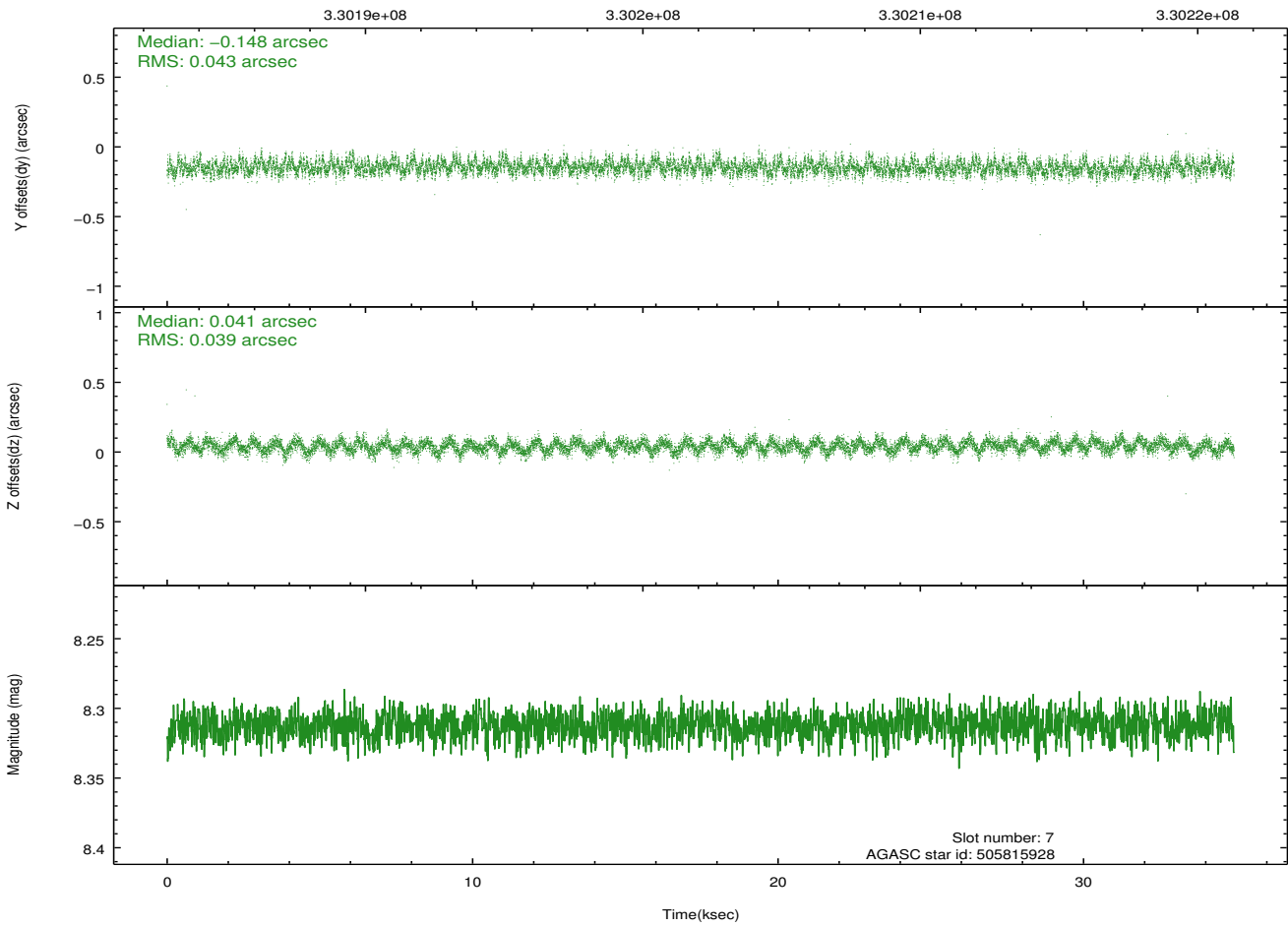
### 2.4.4 Slot 6



### 2.4.5 Slot 7

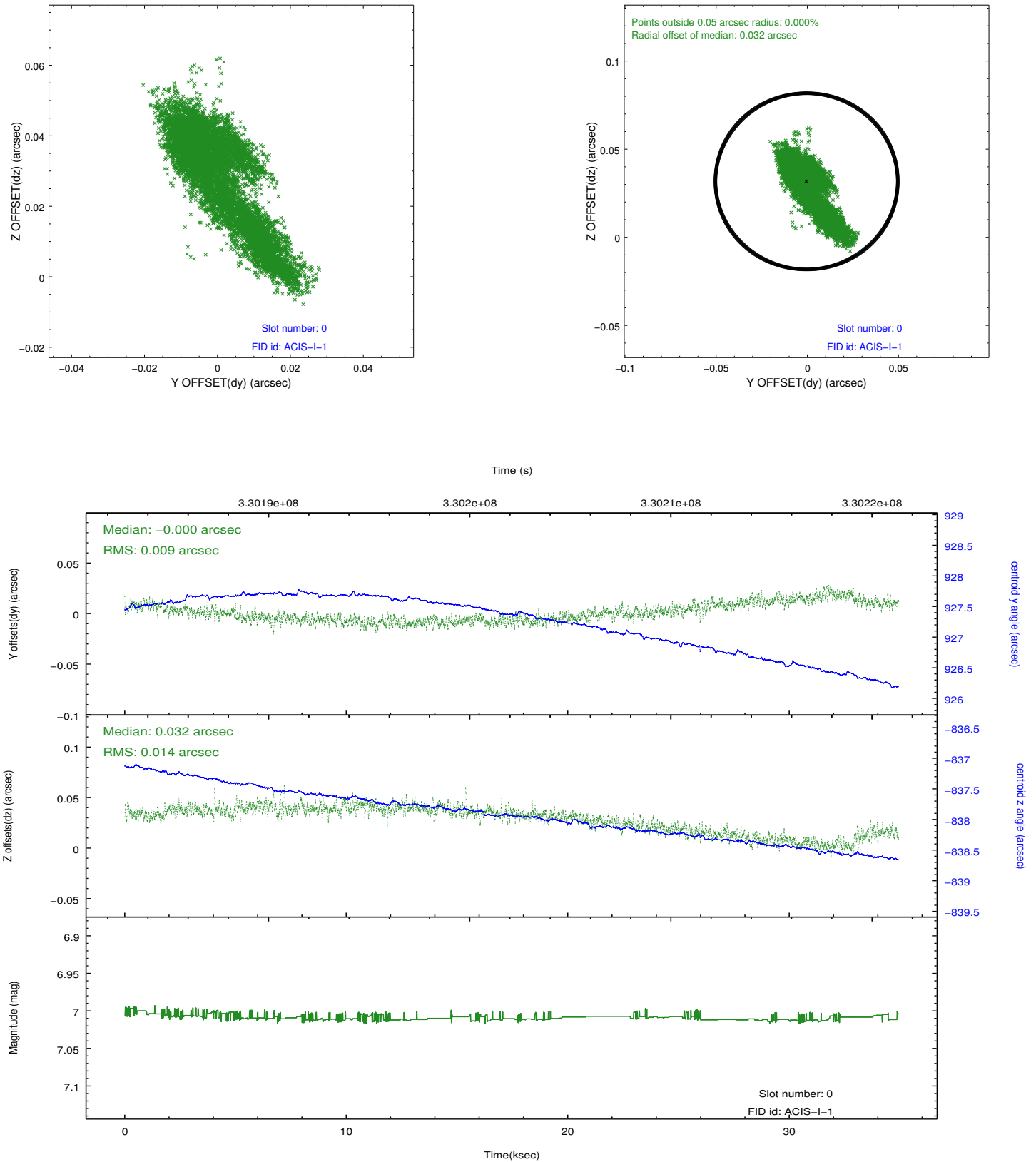


Time (s)

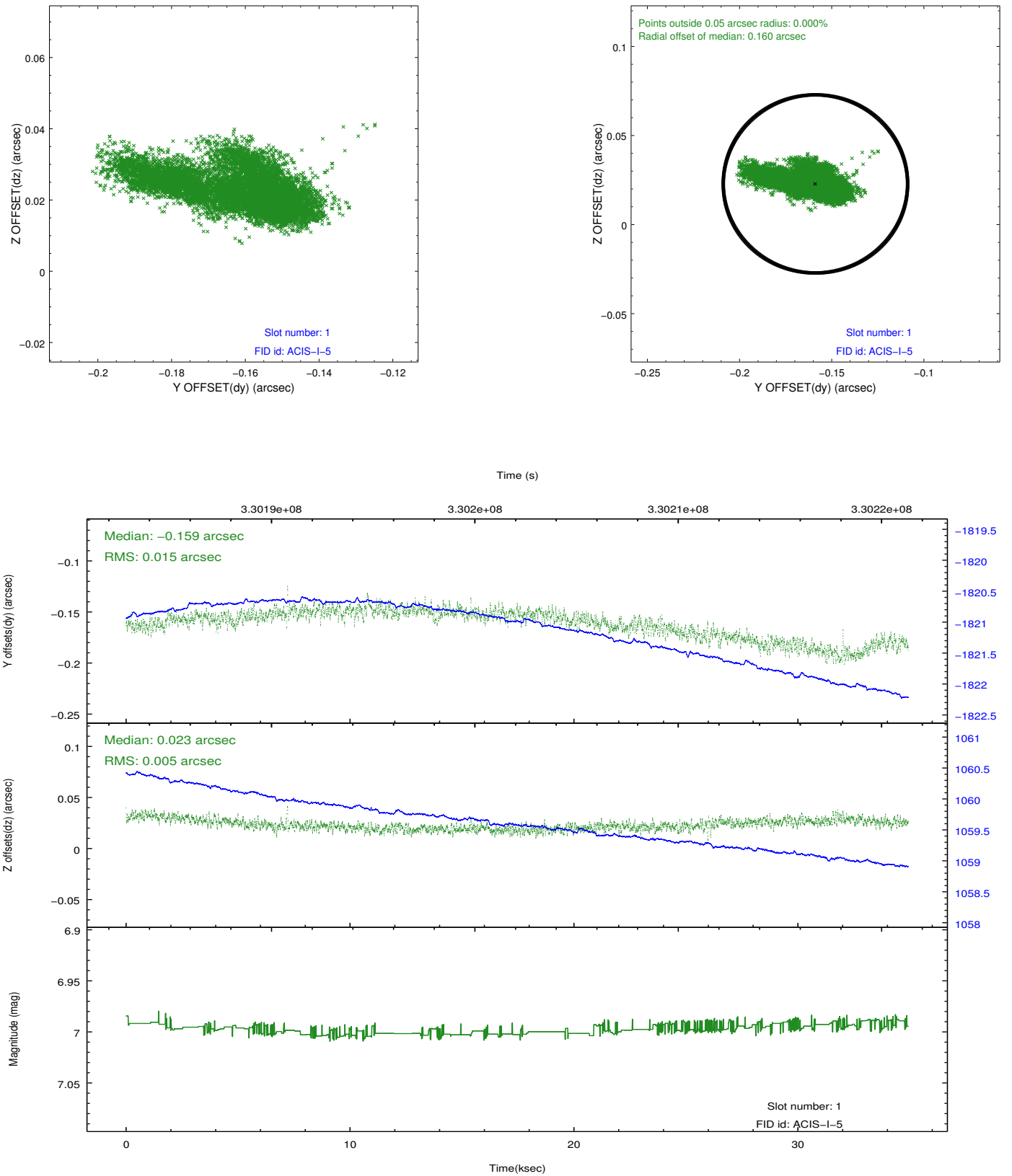


## 2.5 FID Slots

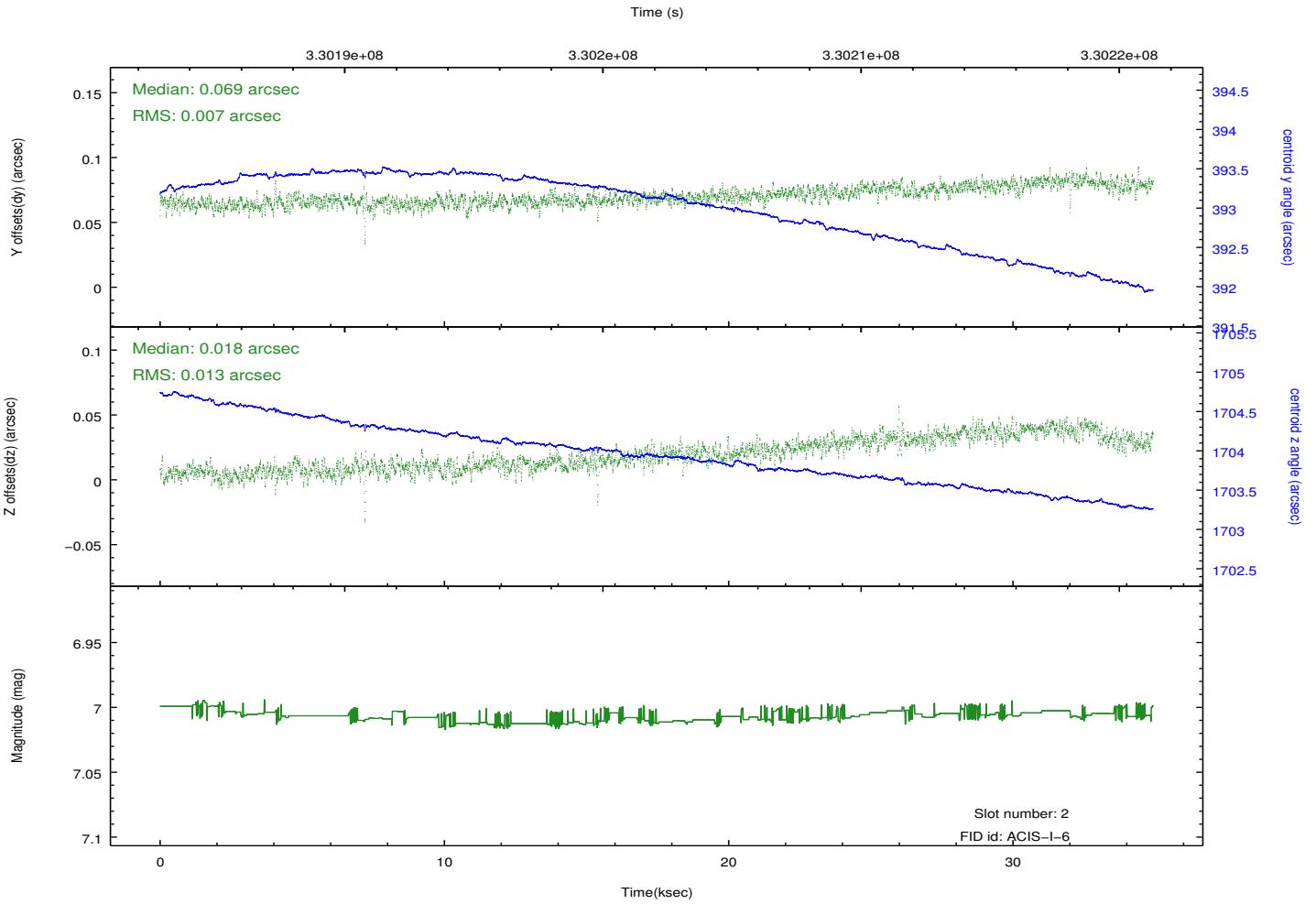
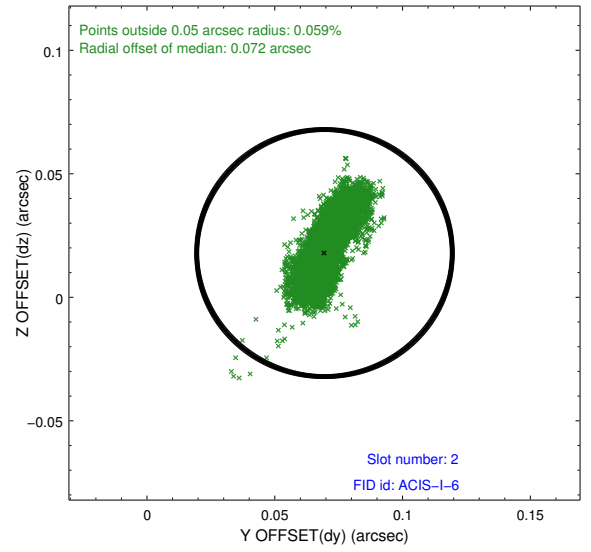
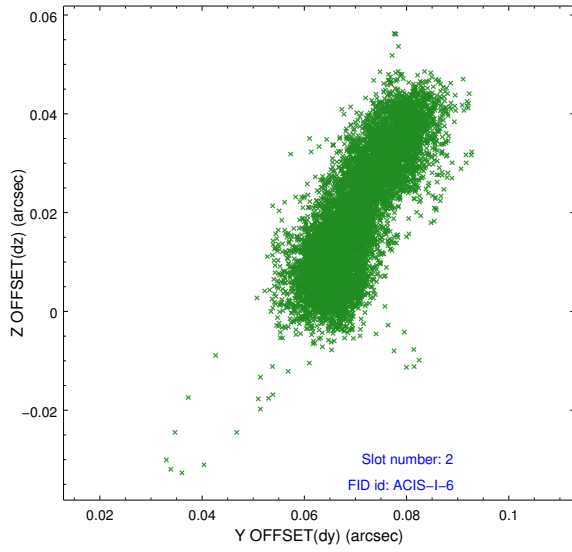
### 2.5.1 Slot 0



## 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)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.9245592

## A.2 Comments

Joint Proposal: Spitzer. Roll constraint met.