

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19961 - L2 Version 1
Chandra X-Ray Center

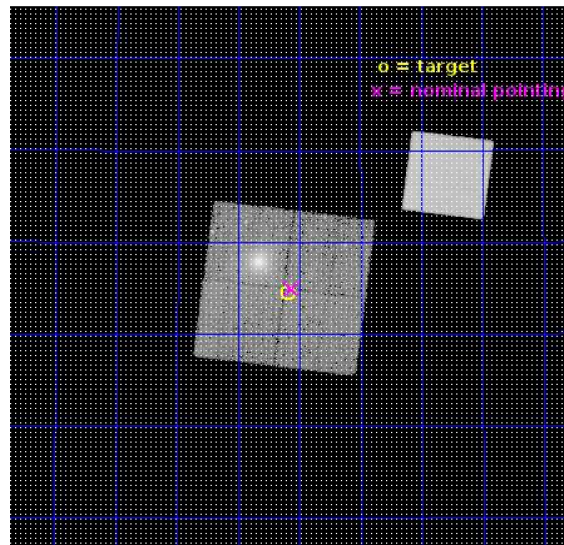
L2 Processing Date : Dec 17 2016

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1 Front

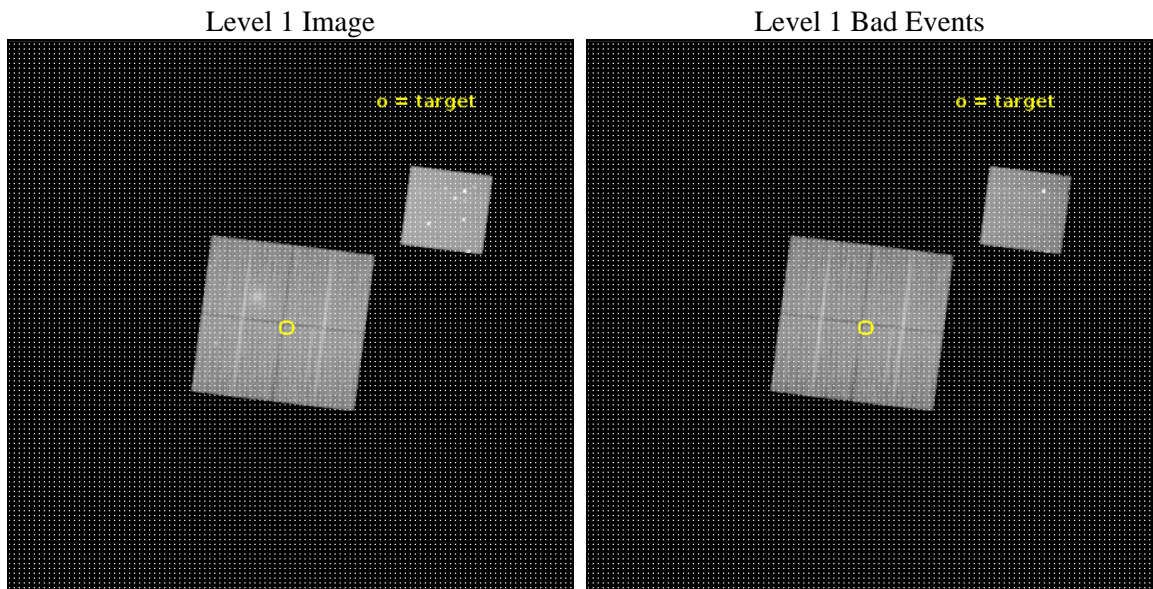
seq_num	801597	Sequence number
obs_id	19961	Observation id
title	Mapping an unusually Relaxed Non-Cool-Core Cluster out to the Viral Radius	Proposal title
observer	Yuanyuan Su	Principal investigator
object	Abell 586	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.0225	Observer's specified target RA [deg]
dec_targ	31.57375	Observer's specified target Dec [deg]
ra_nom	113.01645328454	Nominal RA [deg]
dec_nom	31.582359855982	Nominal Dec [deg]
roll_nom	97.211834542594	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30069.058268309	Sum of GTIs [s]
livetime	29676.183885515	Livetime [s]
ontime0	30072.076208234	Sum of GTIs [s]
ontime1	30065.83512795	Sum of GTIs [s]
ontime2	30069.01720798	Sum of GTIs [s]
ontime3	30069.058268309	Sum of GTIs [s]
ontime5	30072.240368247	Sum of GTIs [s]
l2events	259023	Number of level 2 events



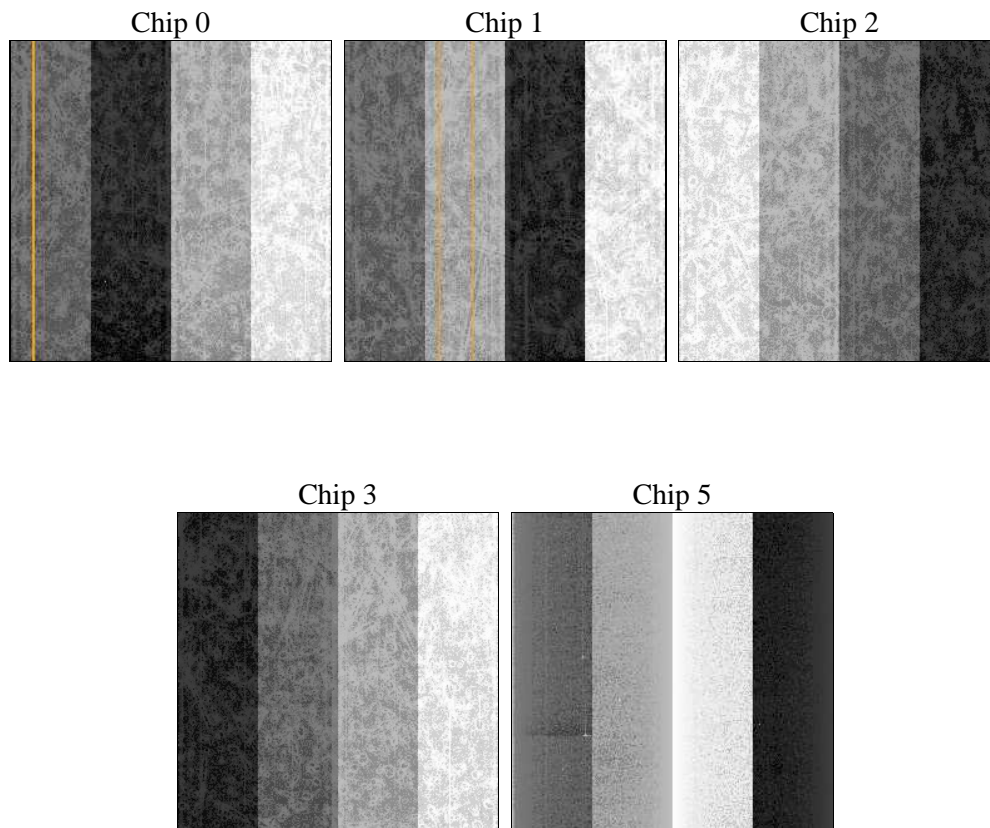
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30004.428000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	30069.058268309	Sum of GTIs [s]
caldbver	4.7.3	 	ontime0	30072.076208234	Sum of GTIs [s]
date	2016-12-18T01:21:39	Date and time of file creation	ontime1	30065.83512795	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30069.01720798	Sum of GTIs [s]
			ontime3	30069.058268309	Sum of GTIs [s]
			ontime5	30072.240368247	Sum of GTIs [s]
			l1events	1234228	Number of level 1 events

2.1.4 Events

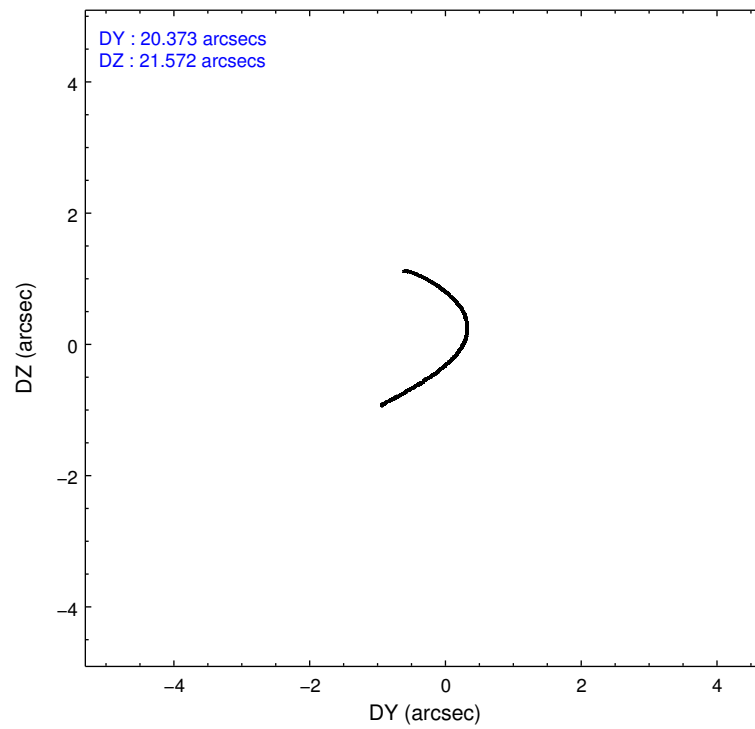
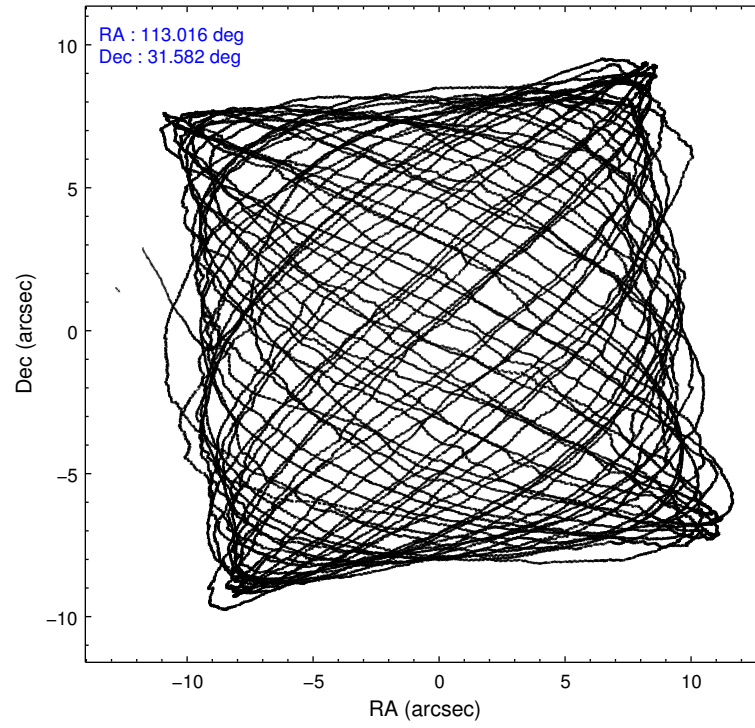
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
level 1 events	221060	207361	215354	213006	377447
rejected events	176128	180076	191202	190331	189895
rejected %	79%	86%	88%	89%	50%

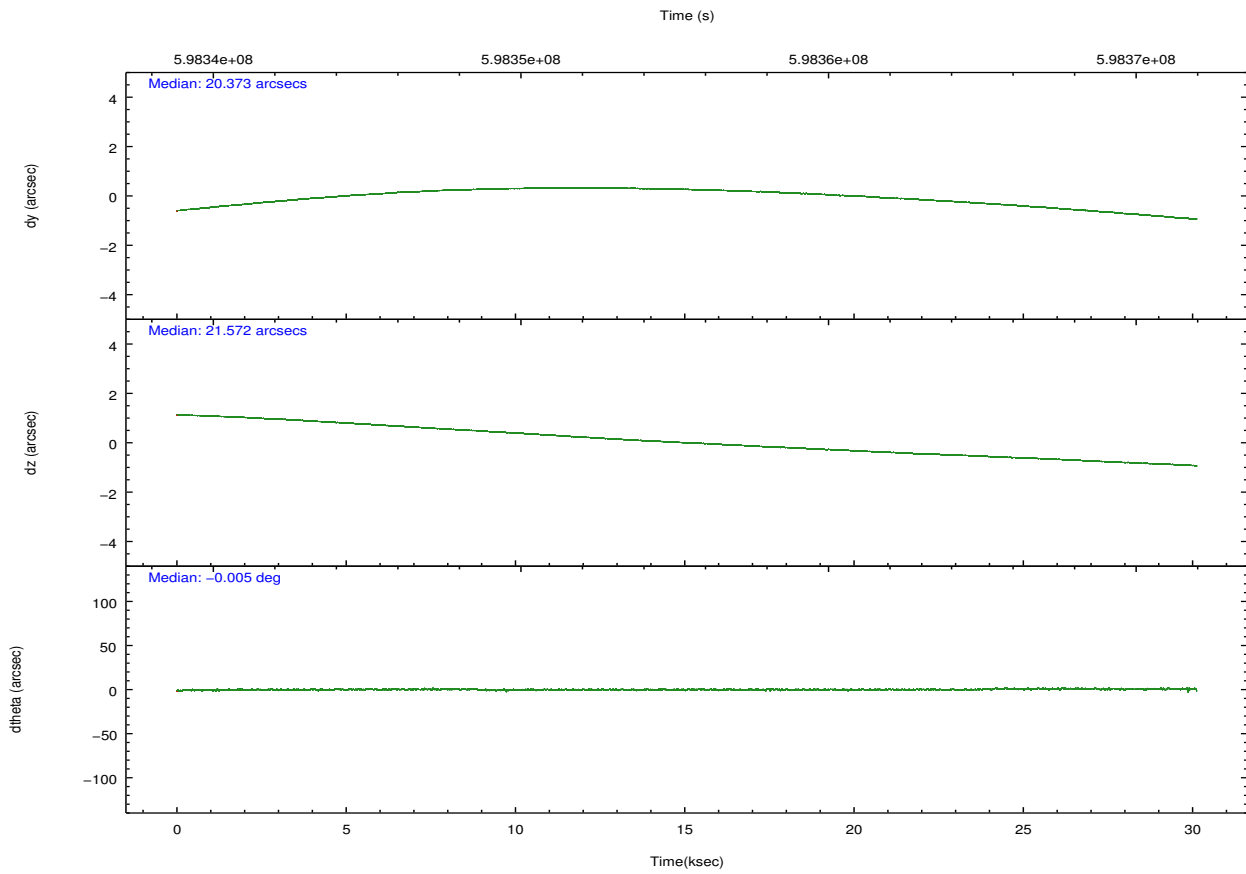
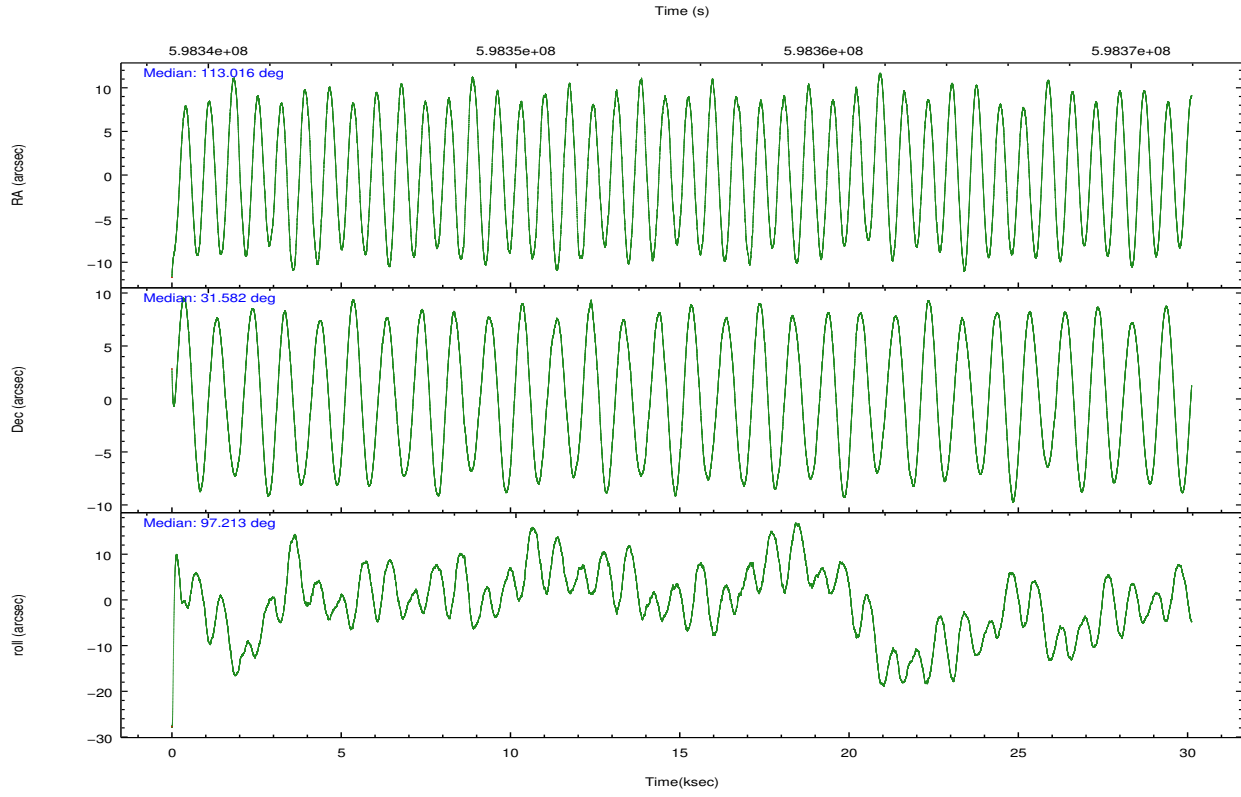
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
grade 0 events	24840	9874	8921	7849	30160
	11%	4%	4%	3%	7%
grade 1 events	202	126	160	114	840
	0%	0%	0%	0%	0%
grade 2 events	8288	6422	5839	5110	53260
	3%	3%	2%	2%	14%
grade 3 events	3199	2510	2412	2438	7059
	1%	1%	1%	1%	1%
grade 4 events	3000	2648	2368	2447	5823
	1%	1%	1%	1%	1%
grade 5 events	9488	9708	8756	10406	25536
	4%	4%	4%	4%	6%
grade 6 events	5607	5834	4612	4835	91270
	2%	2%	2%	2%	24%
grade 7 events	166436	170239	182286	179807	163499
	75%	82%	84%	84%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01235	ACIS-01235	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	113.036140	113.0164532845439	CCD I2 on	Y	Y
[deg] Pointing Dec	31.560433	31.58235985598174	CCD I3 on	Y	Y
[deg] Pointing Roll	96.992860	97.21183454259388	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[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)	598340435.184000	598339303.2895401	CCD S5 on	N	N
Observation start date	2016-12-17T05:39:27	2016-12-17T05:21:43	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	598370439.184000	598370668.29135	On-chip summing requested	N	N
Observation end date	2016-12-17T13:59:31	2016-12-17T14:04:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



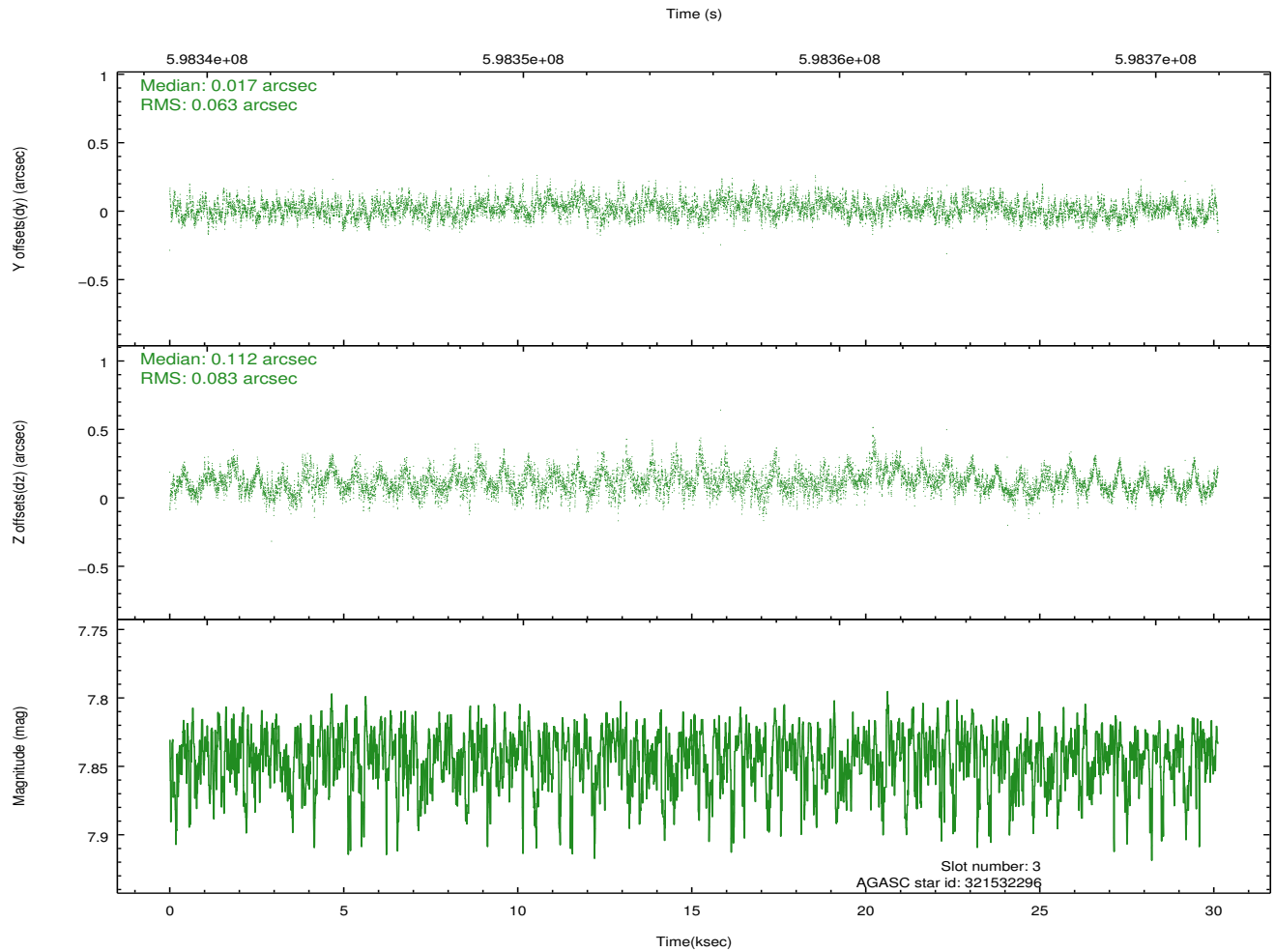
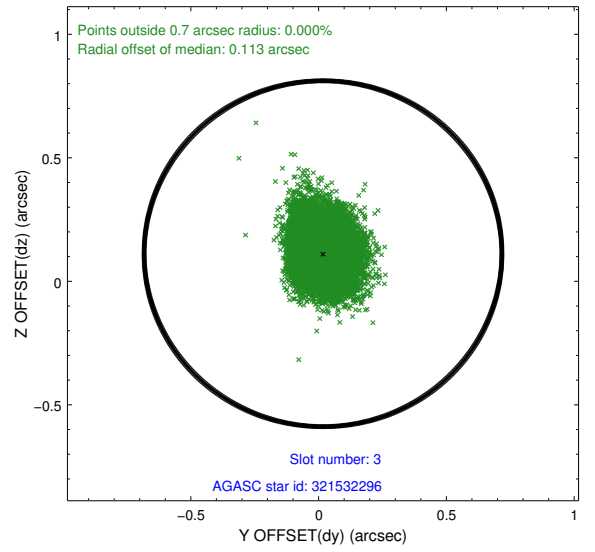
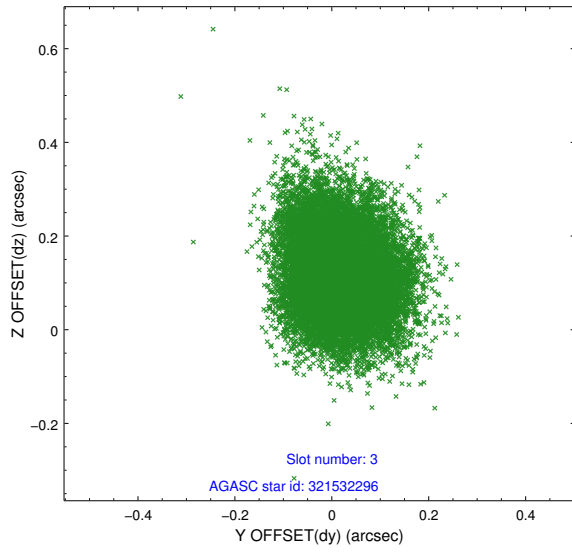


Slot Statistics

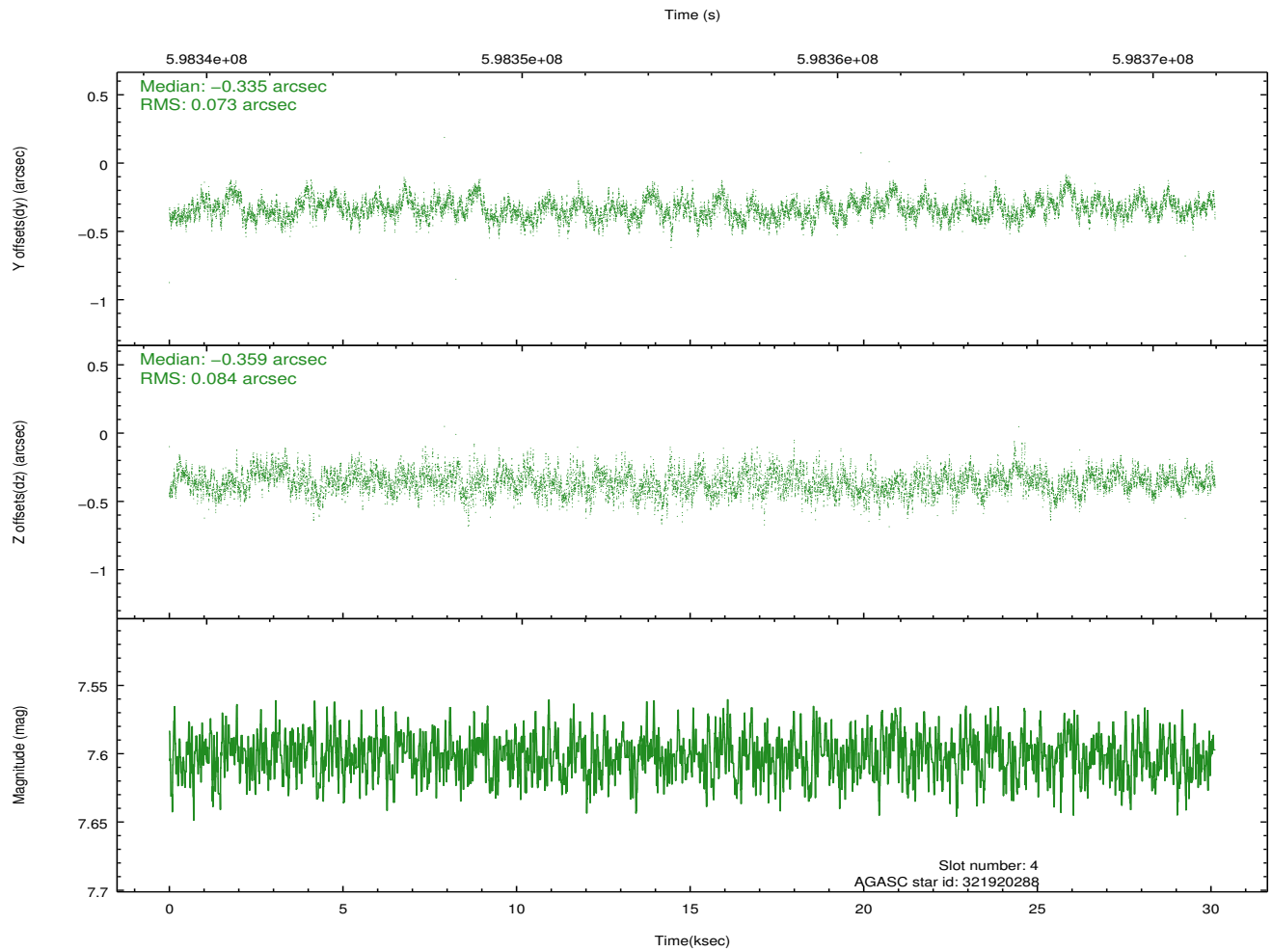
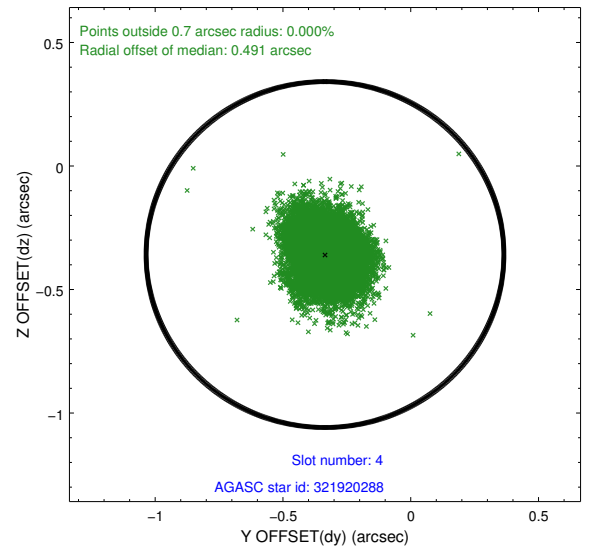
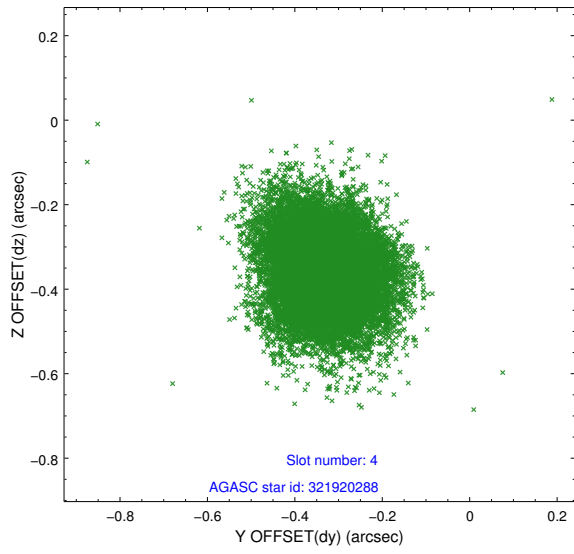
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	7347	0.090	-0.061	0.024	0.051	0.000000	0.000000	919.15	-845.42
1	FID		ACIS-I-5	7.16	7347	-0.391	0.038	0.013	0.026	0.000000	0.000000	-1829.48	1052.01
2	FID		ACIS-I-6	7.17	7346	0.210	0.093	0.033	0.056	0.000000	0.000000	384.62	1696.74
3	GUIDE	used	321532296	7.84	14690	0.017	0.112	0.109	0.181	113.066115	31.102052	-1649.11	109.39
4	GUIDE	used	321920288	7.60	14693	-0.335	-0.359	0.118	0.192	112.257380	31.993844	1848.84	2165.68
5	GUIDE	used	321527936	7.99	14680	0.046	-0.074	0.102	0.167	112.604277	31.145118	-1319.56	1502.86
6	GUIDE	used	321529016	9.08	14679	0.593	0.587	0.147	0.241	113.590081	31.231460	-1378.67	-1547.64
7	GUIDE	used	321921352	9.13	14673	-0.326	-0.262	0.194	0.295	112.322646	32.133037	2317.60	1906.85

2.4 Star Slots

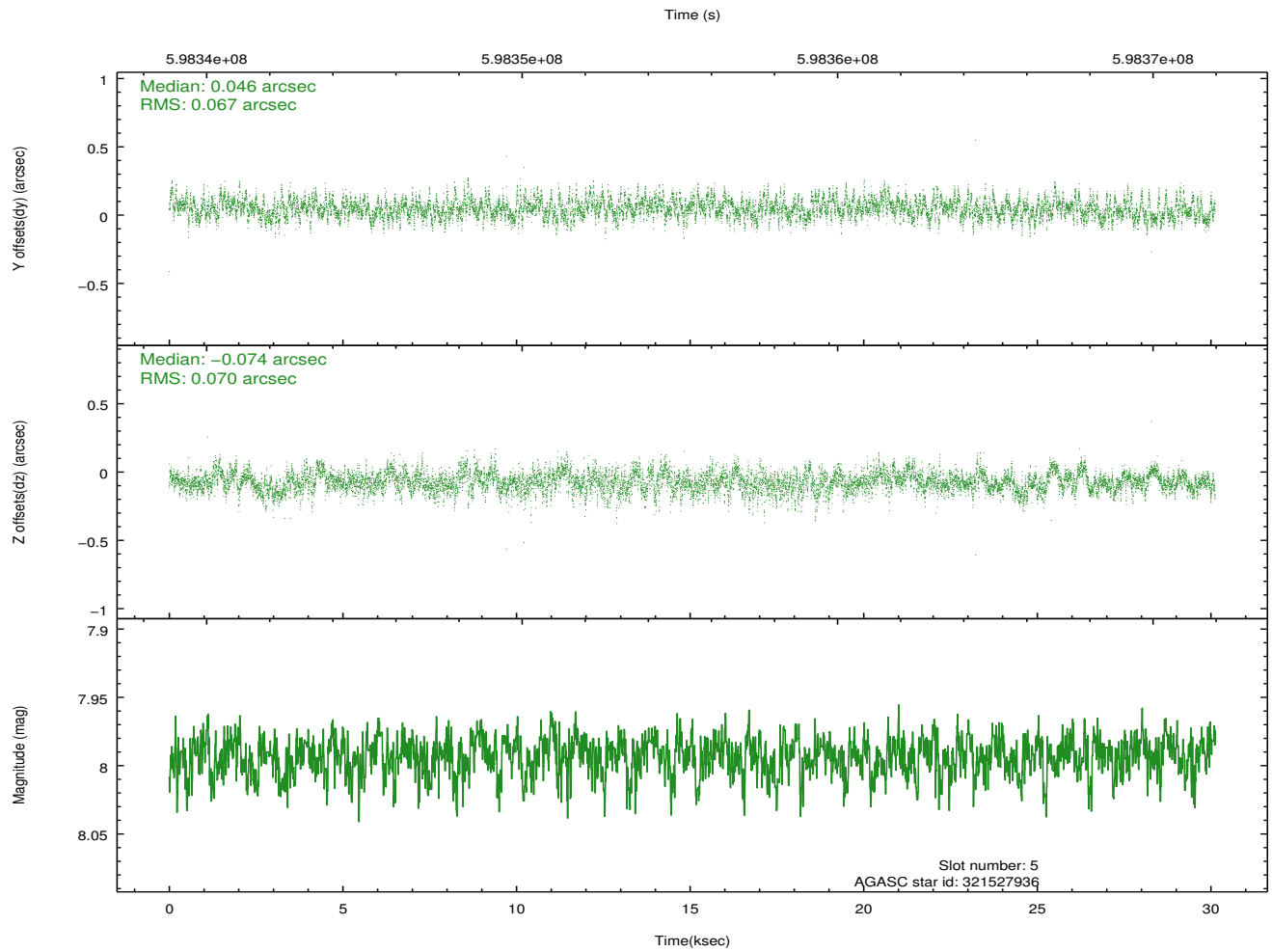
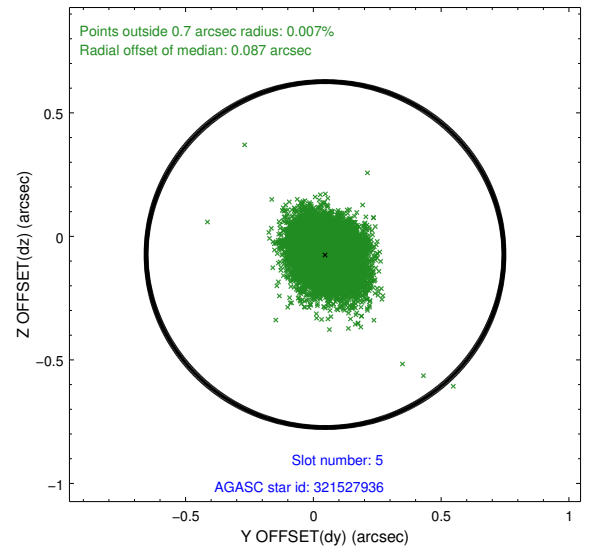
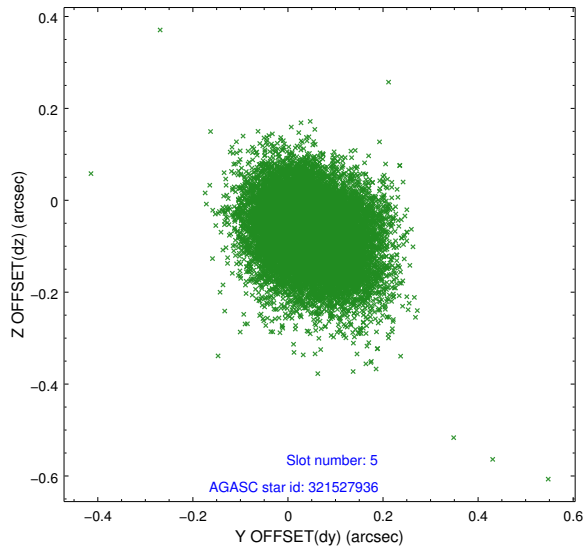
2.4.1 Slot 3



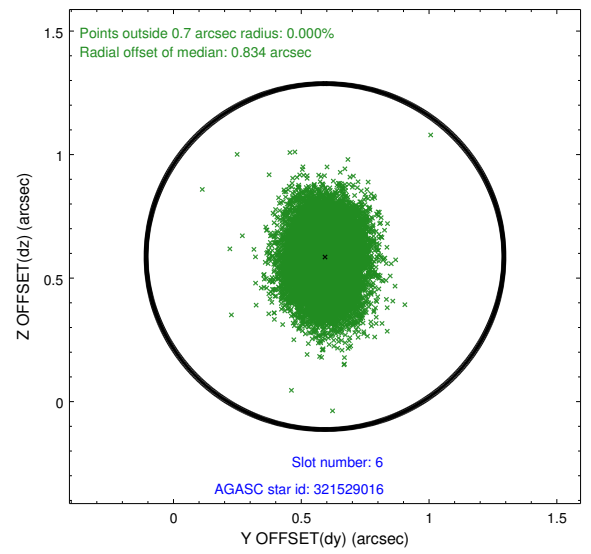
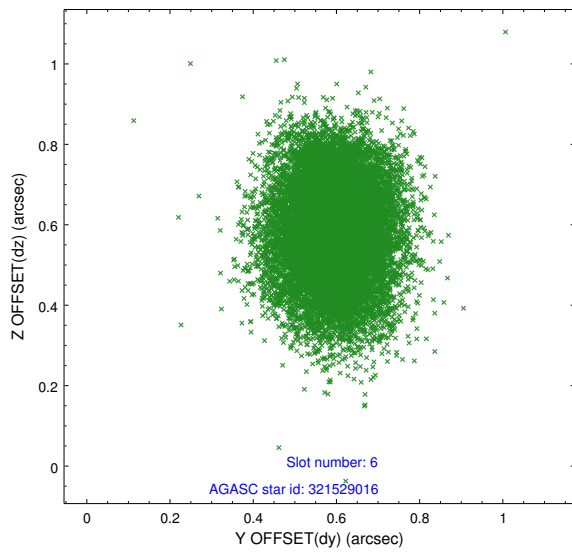
2.4.2 Slot 4



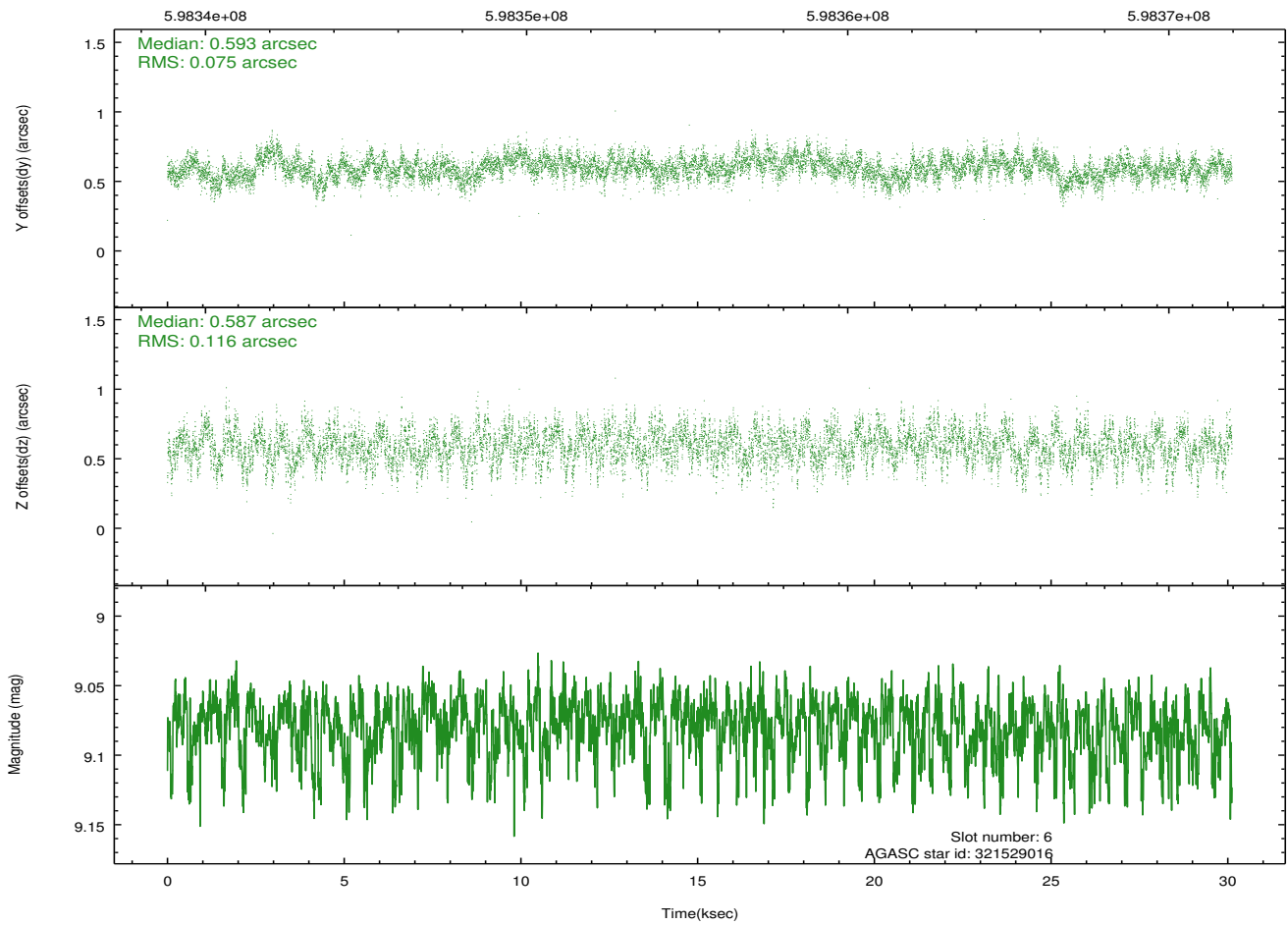
2.4.3 Slot 5



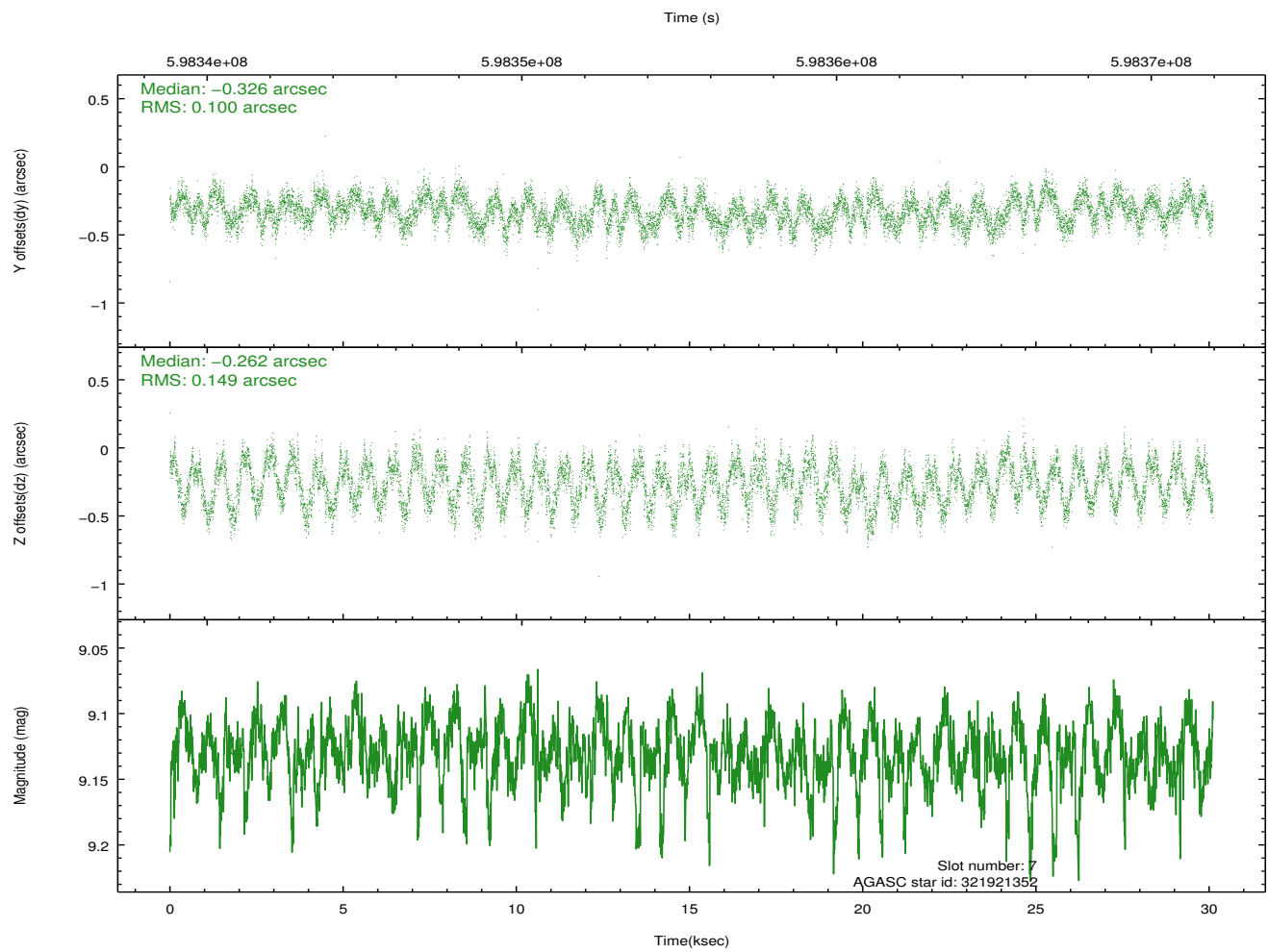
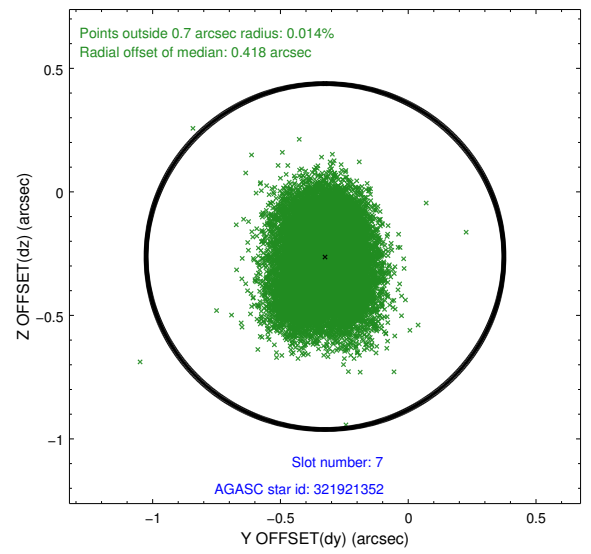
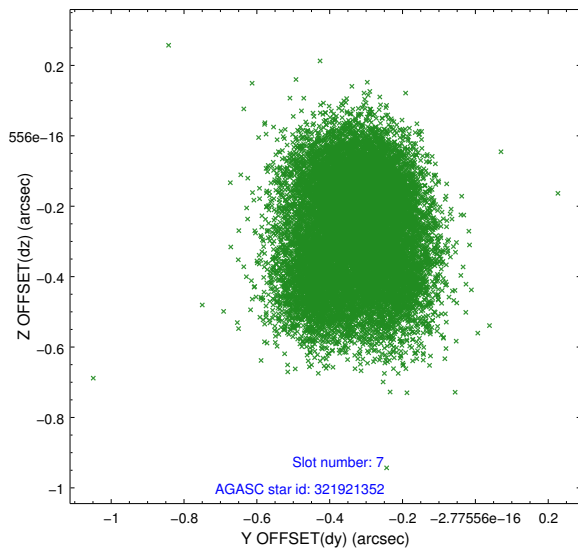
2.4.4 Slot 6



Time (s)

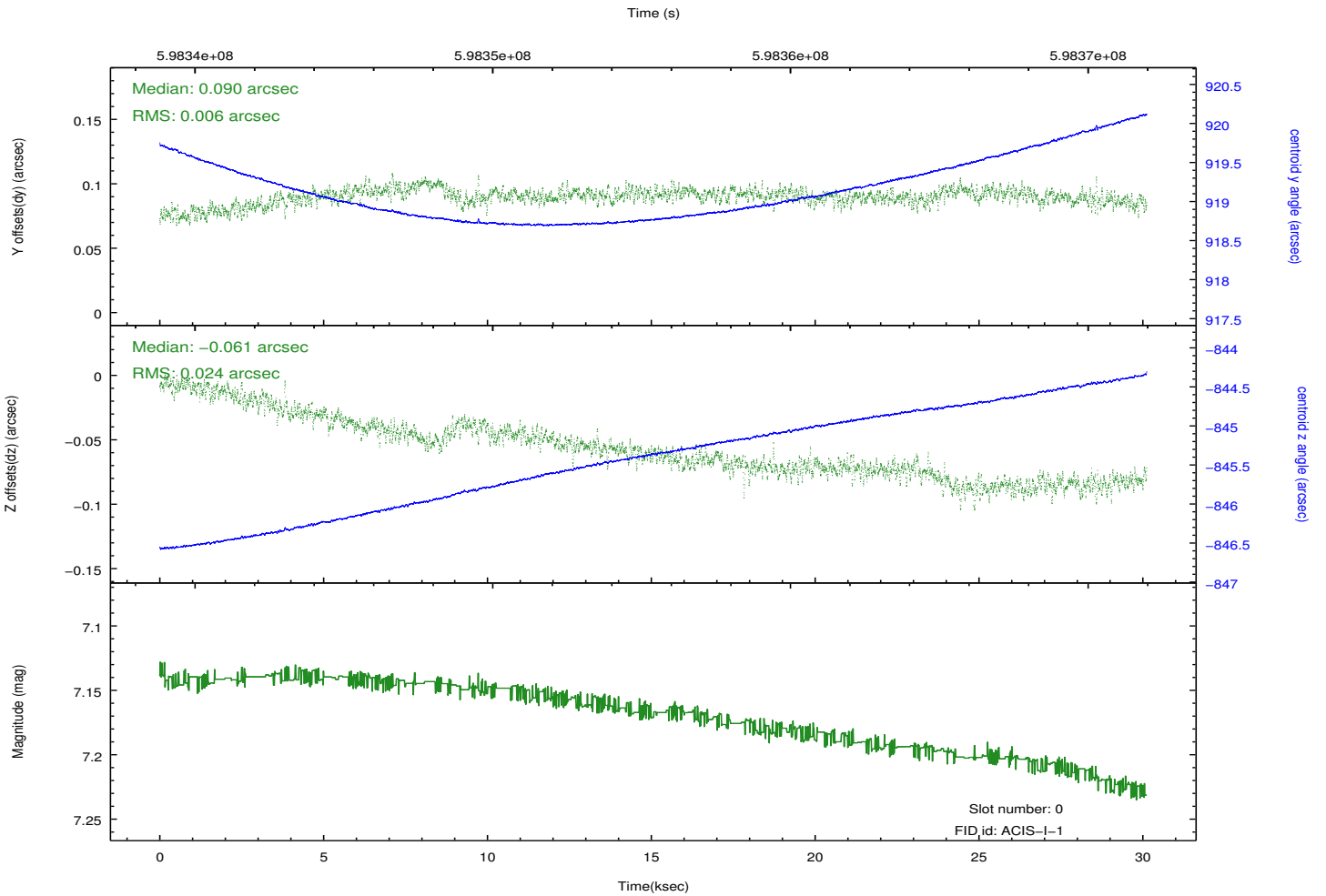
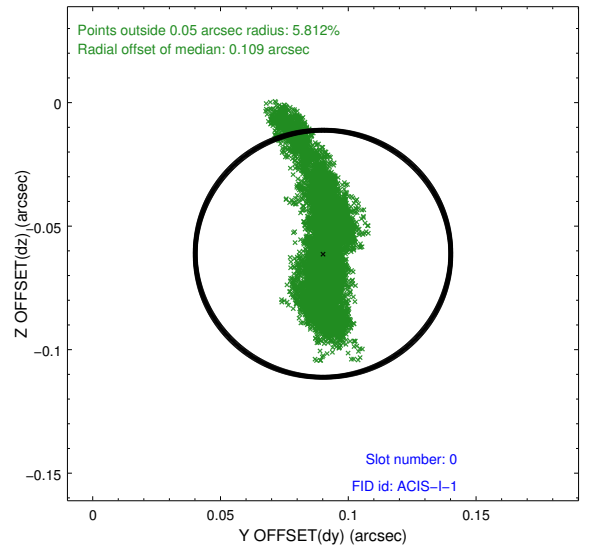
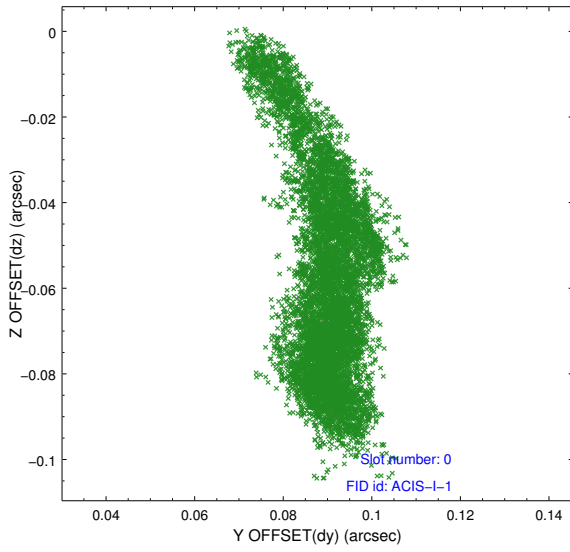


2.4.5 Slot 7

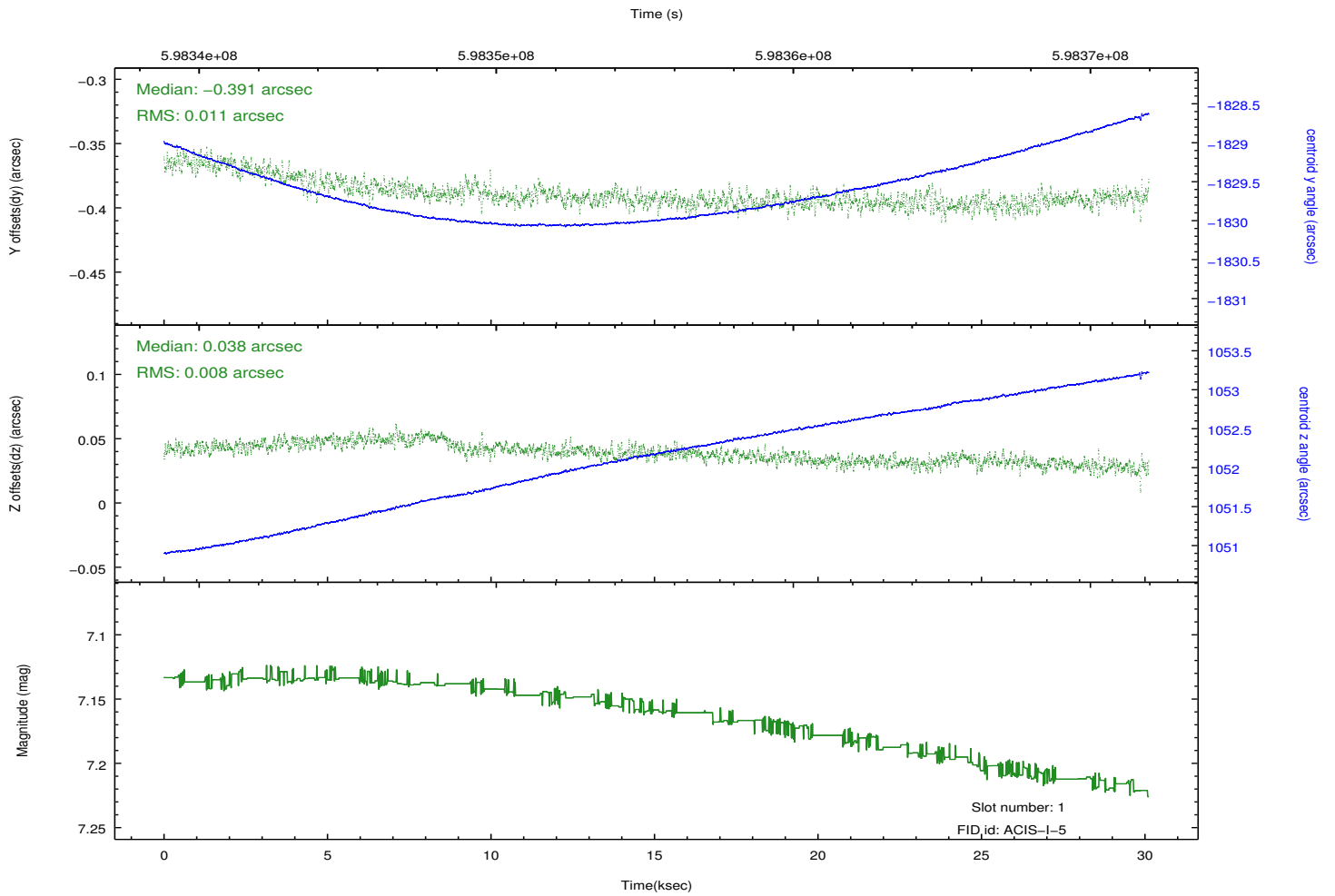
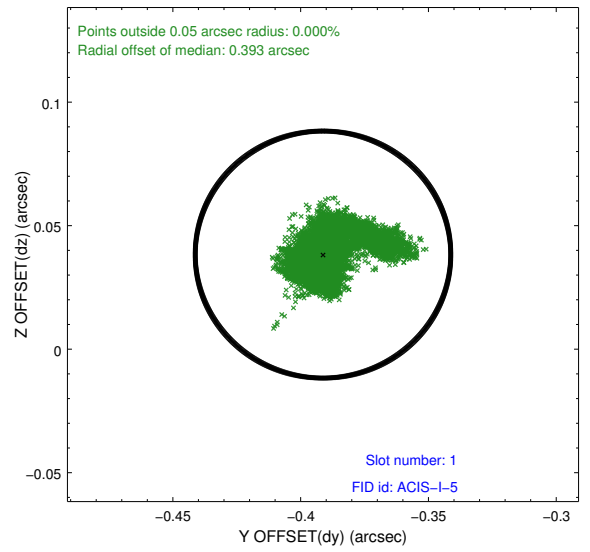
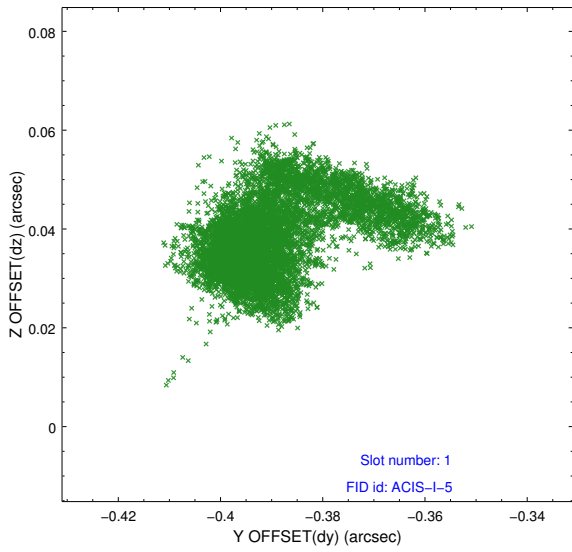


2.5 FID Slots

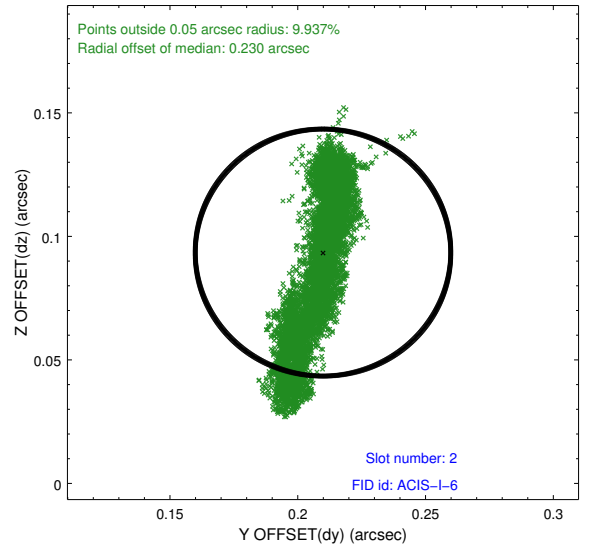
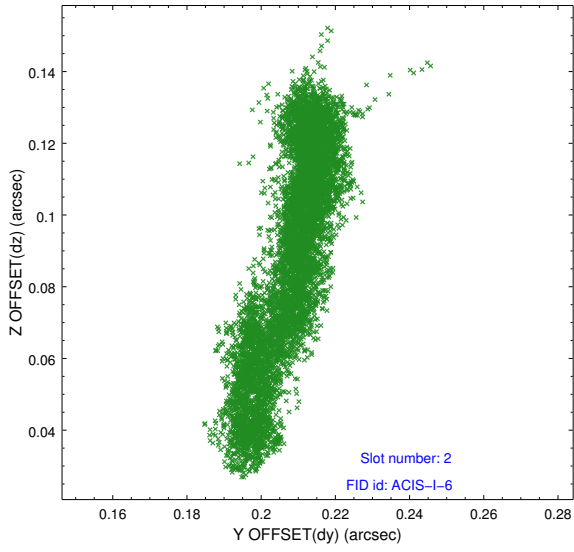
2.5.1 Slot 0



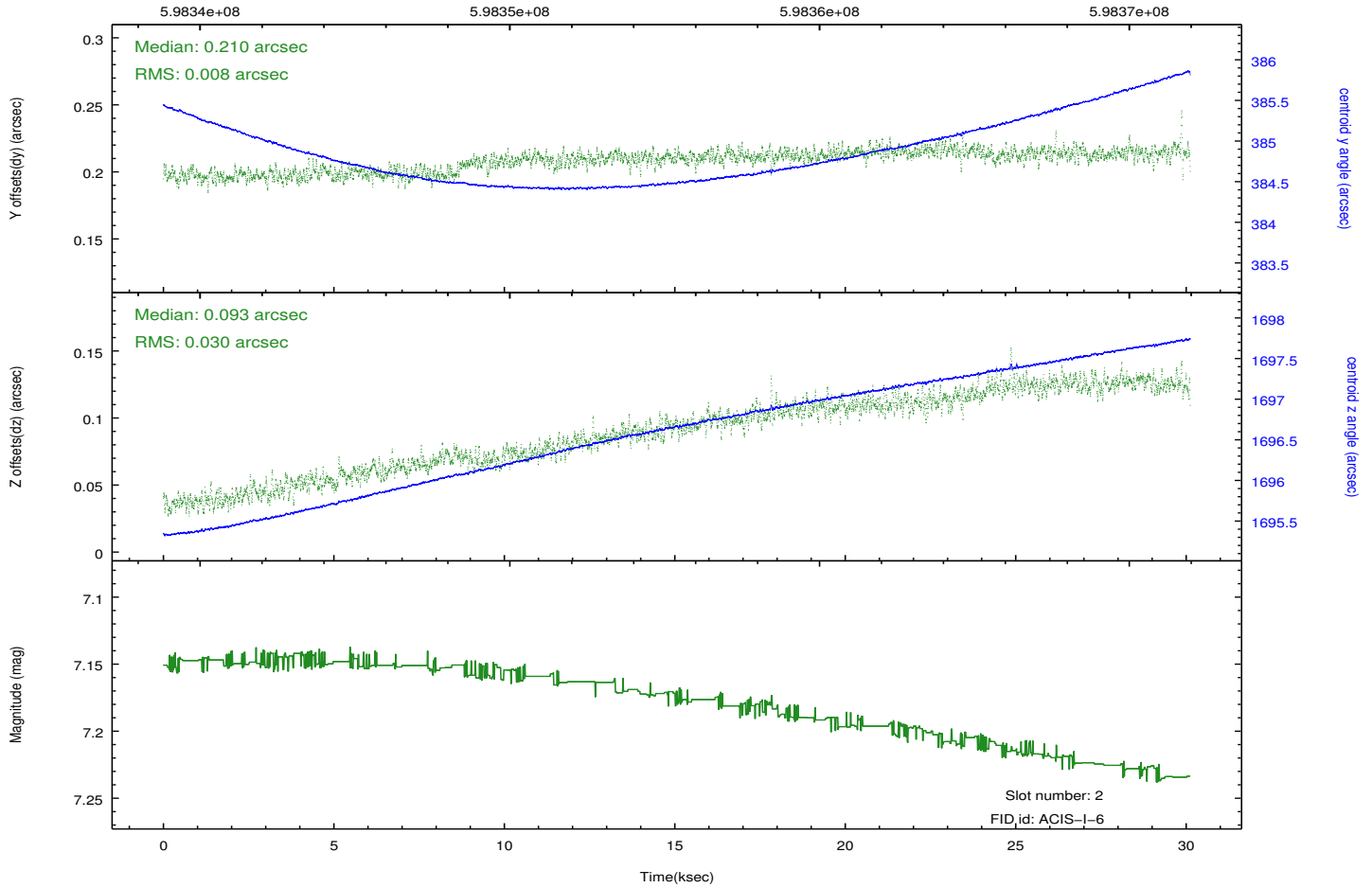
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.069058268309

A.2 Comments

Optional chip S2 not included.