

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2835 - L2 Version 5
Chandra X-Ray Center

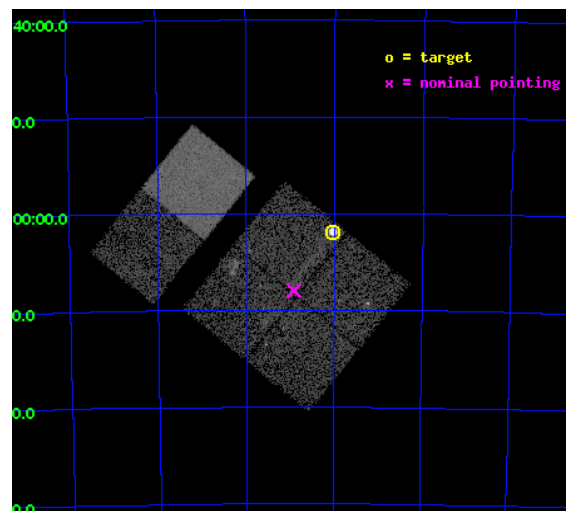
L2 Processing Date : Oct 3 2012

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1 Front

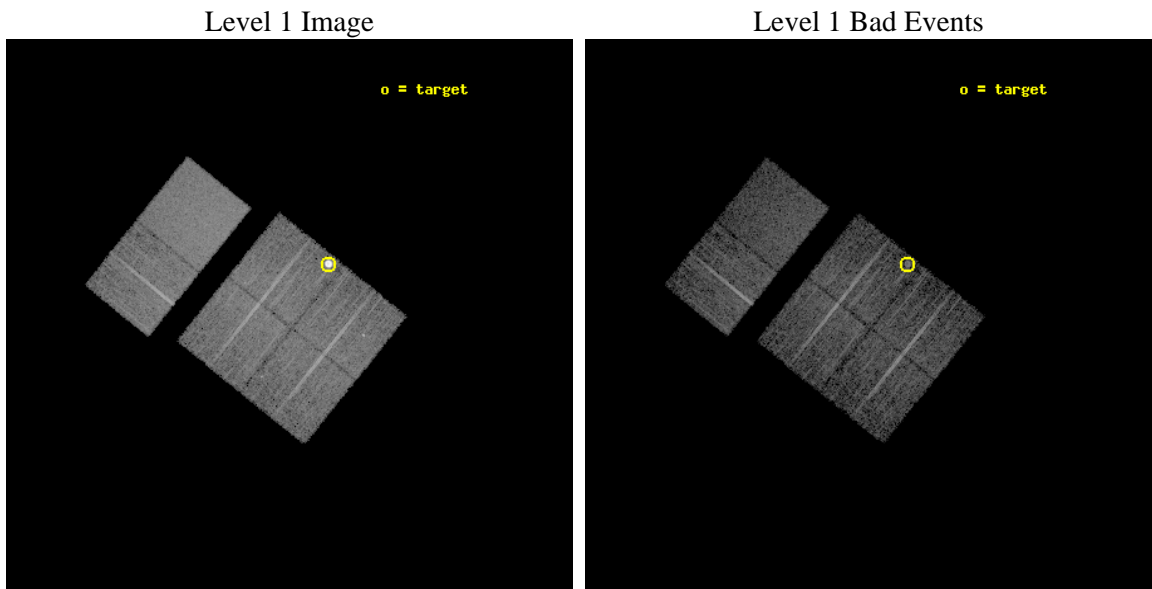
seq_num	590224	Sequence number
obs_id	2835	Observation id
title	AO3A ACIS-I CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip I3, T=120, Offsets=-7,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.229651070987	Nominal RA [deg]
dec_nom	-72.132894775205	Nominal Dec [deg]
roll_nom	308.91897381868	Nominal Roll [deg]
revision	5	Processing version of data
ontime	7932.8000073731	Sum of GTIs [s]
livetime	7832.350117121	Livetime [s]
ontime0	7929.559027195	Sum of GTIs [s]
ontime1	7929.5590471178	Sum of GTIs [s]
ontime2	7932.8000073731	Sum of GTIs [s]
ontime3	7932.8000073731	Sum of GTIs [s]
ontime6	7929.5589872748	Sum of GTIs [s]
ontime7	7932.8000073731	Sum of GTIs [s]
l2events	78065	Number of level 2 events



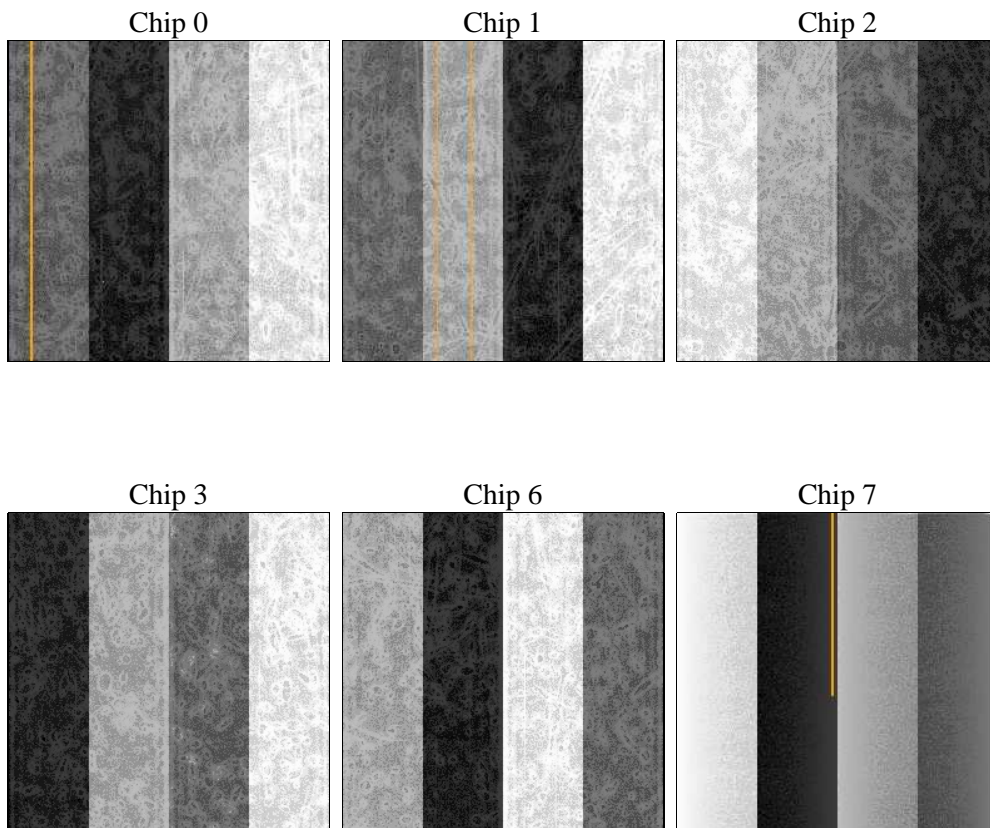
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	7800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7932.8000073731	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	7929.559027195	Sum of GTIs [s]
date	2012-10-03T15:52:34	Date and time of file creation	ontime1	7929.5590471178	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	7932.8000073731	Sum of GTIs [s]
			ontime3	7932.8000073731	Sum of GTIs [s]
			ontime6	7929.5589872748	Sum of GTIs [s]
			ontime7	7932.8000073731	Sum of GTIs [s]
			l1events	339318	Number of level 1 events

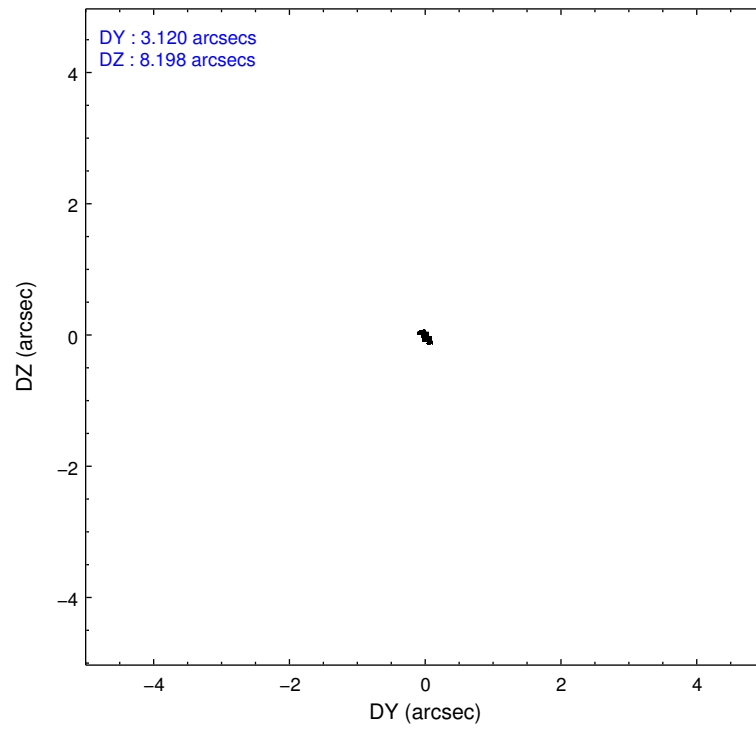
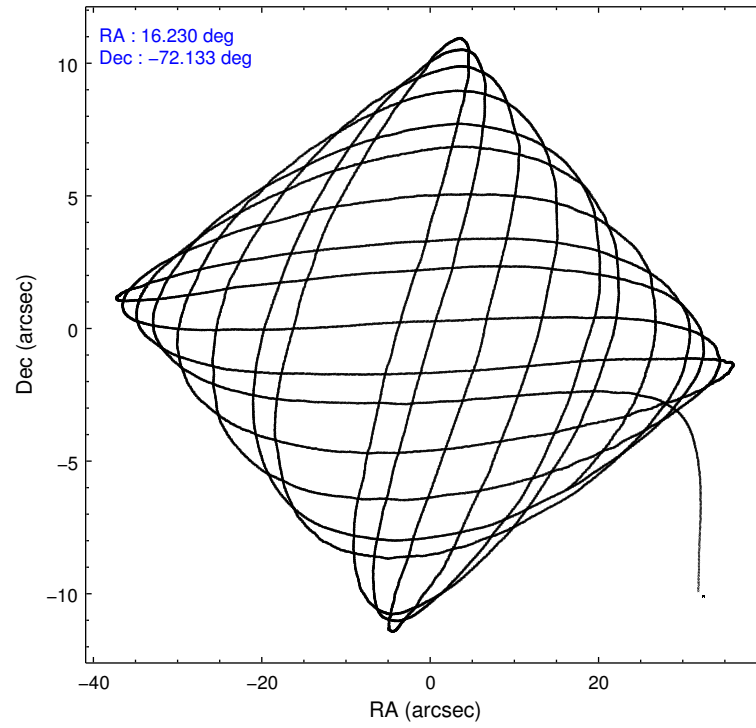
2.1.4 Events

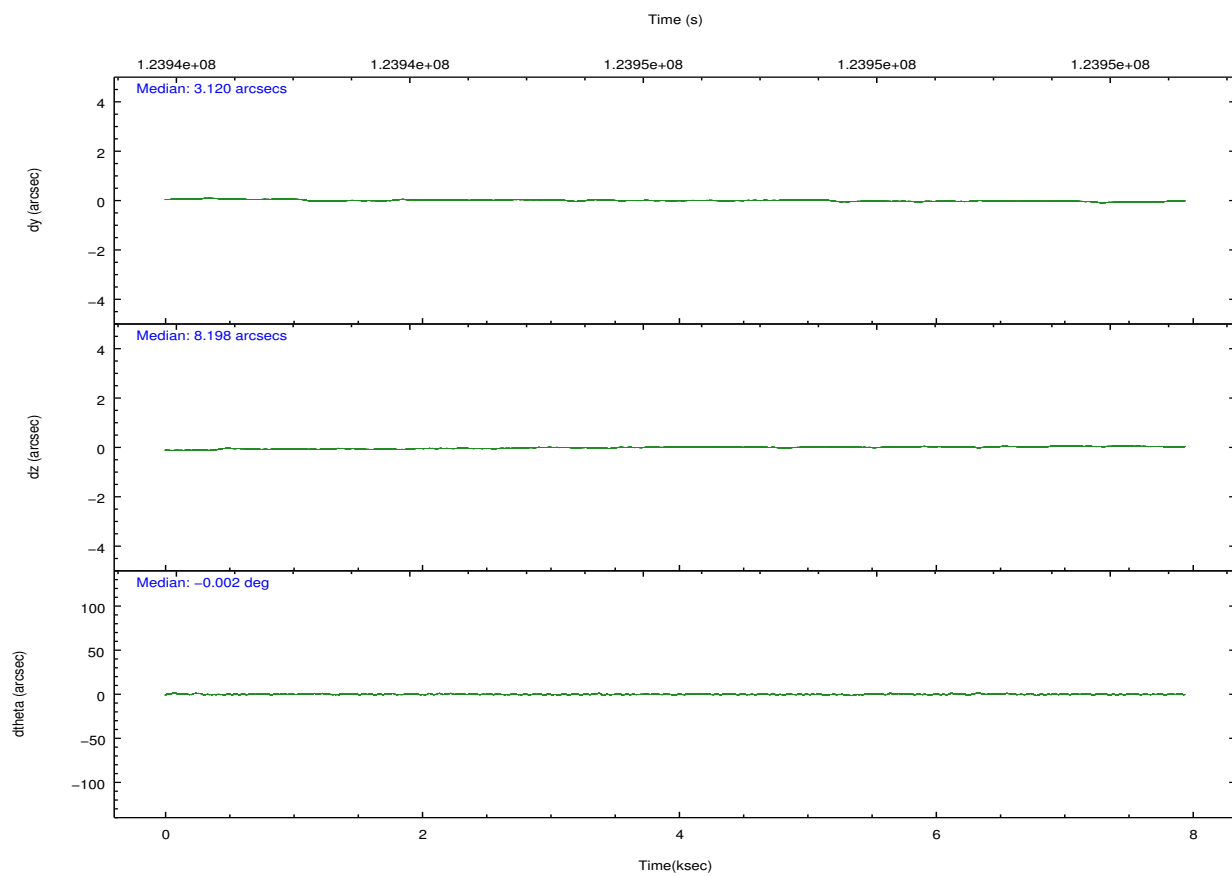
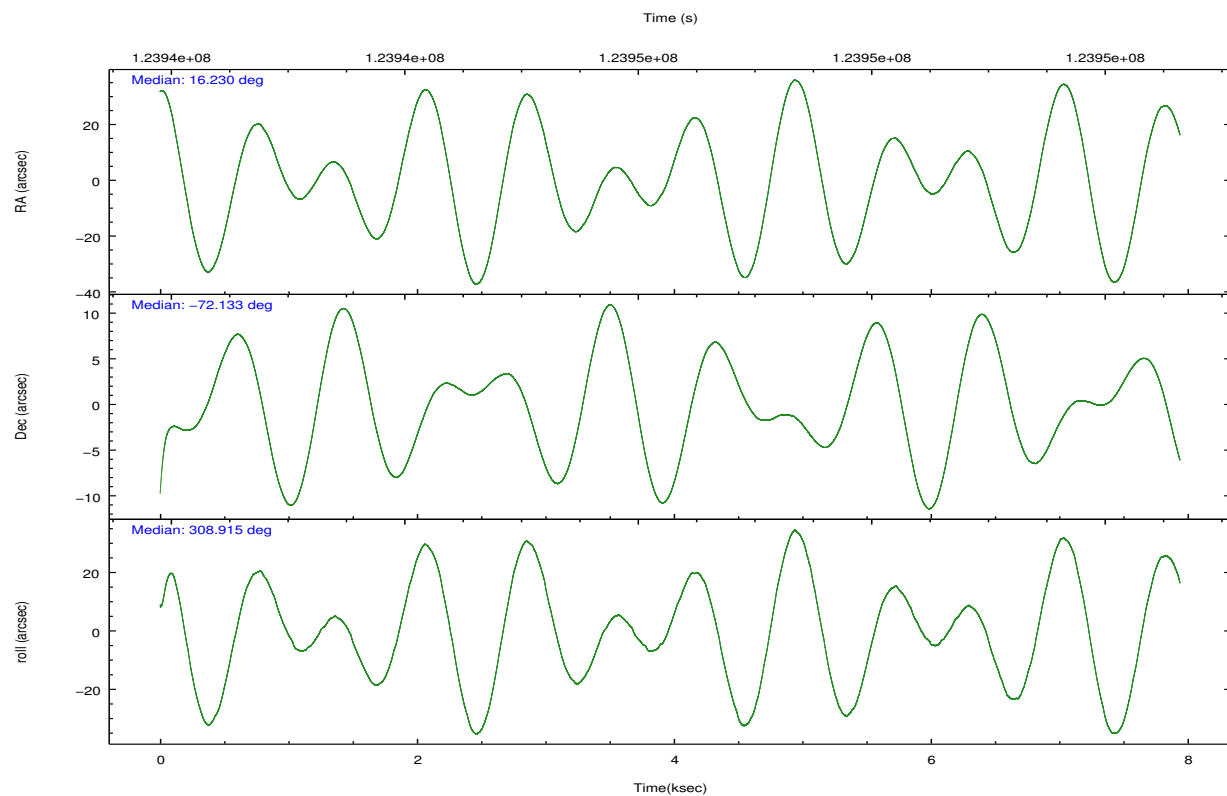
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	45911	48283	51700	73968	53178	66278	grade 0 events	2963	3133	3170	23098	2476	2723
rejected events	39252	41288	45094	44730	47087	38638		6%	6%	6%	31%	4%	4%
rejected %	85%	85%	87%	60%	88%	58%	grade 1 events	22	23	22	197	29	52
								0%	0%	0%	0%	0%	0%
							grade 2 events	1336	1444	1374	3003	1256	5460
								2%	2%	2%	4%	2%	8%
							grade 3 events	651	639	520	962	589	2501
								1%	1%	1%	1%	1%	3%
							grade 4 events	544	654	563	1018	606	2434
								1%	1%	1%	1%	1%	3%
							grade 5 events	1840	2057	1719	2027	2287	6332
								4%	4%	3%	2%	4%	9%
							grade 6 events	1201	1155	998	1281	1185	14636
								2%	2%	1%	1%	2%	22%
							grade 7 events	37354	39178	43334	42382	44750	32140
								81%	81%	83%	57%	84%	48%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.146220	16.22965107098742	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.123102	-72.13289477520479	Alternating exposures requested	N	N
[deg] Pointing Roll	308.630914	308.9189738186828	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	123552064.184000	123552064.184000			
[s] Window stop time (MET)	126144064.184000	126144064.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	123942439.184000	123941378.25761			
Observation start date	2001-12-05T12:26:15	2001-12-05T12:09:38			
[s] Observation end time (MET)	123950239.184000	123950373.14547			
Observation end date	2001-12-05T14:36:15	2001-12-05T14:39:33			
Read mode	TIMED	TIMED			

2.3 Aspect



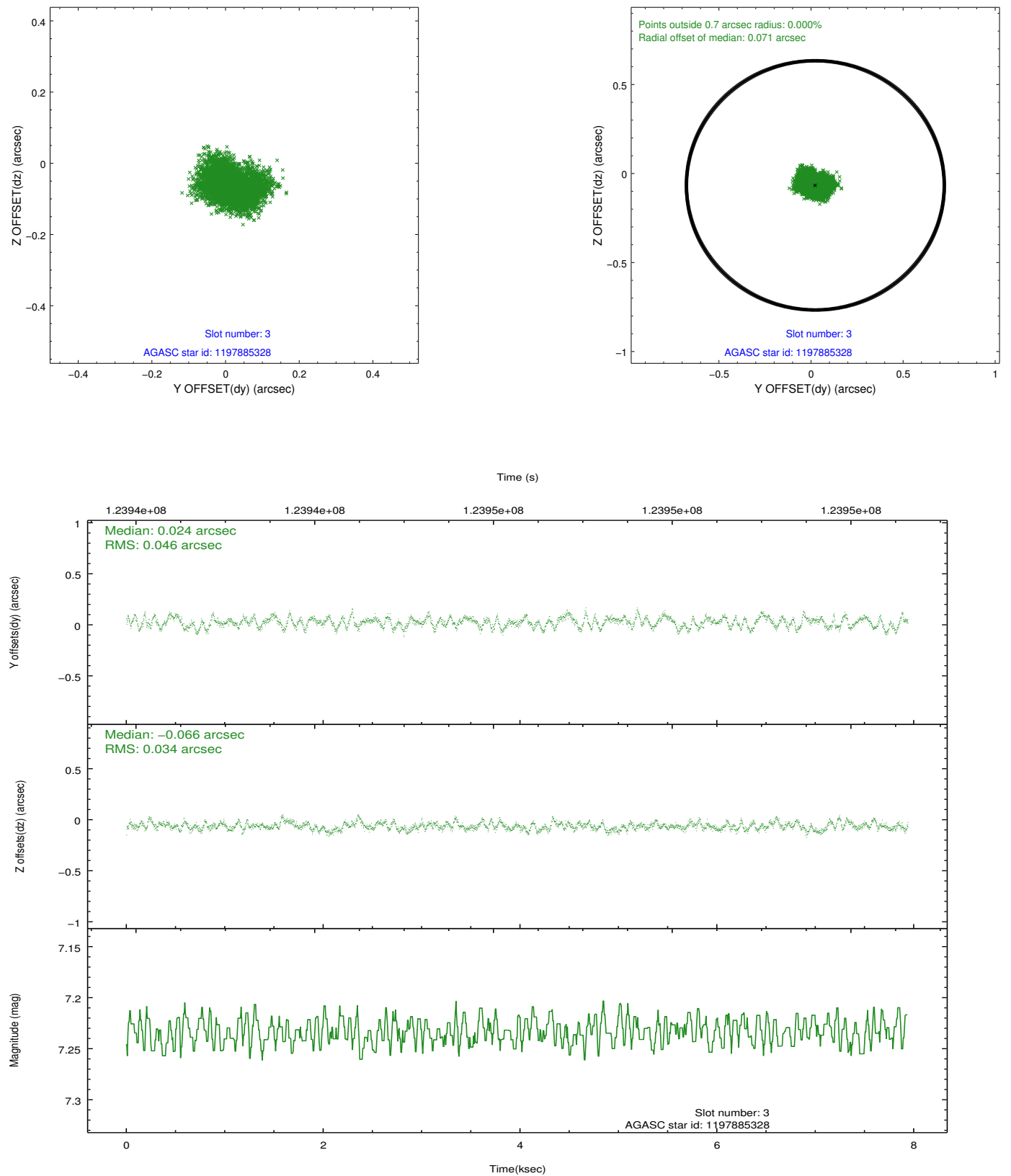


Slot Statistics

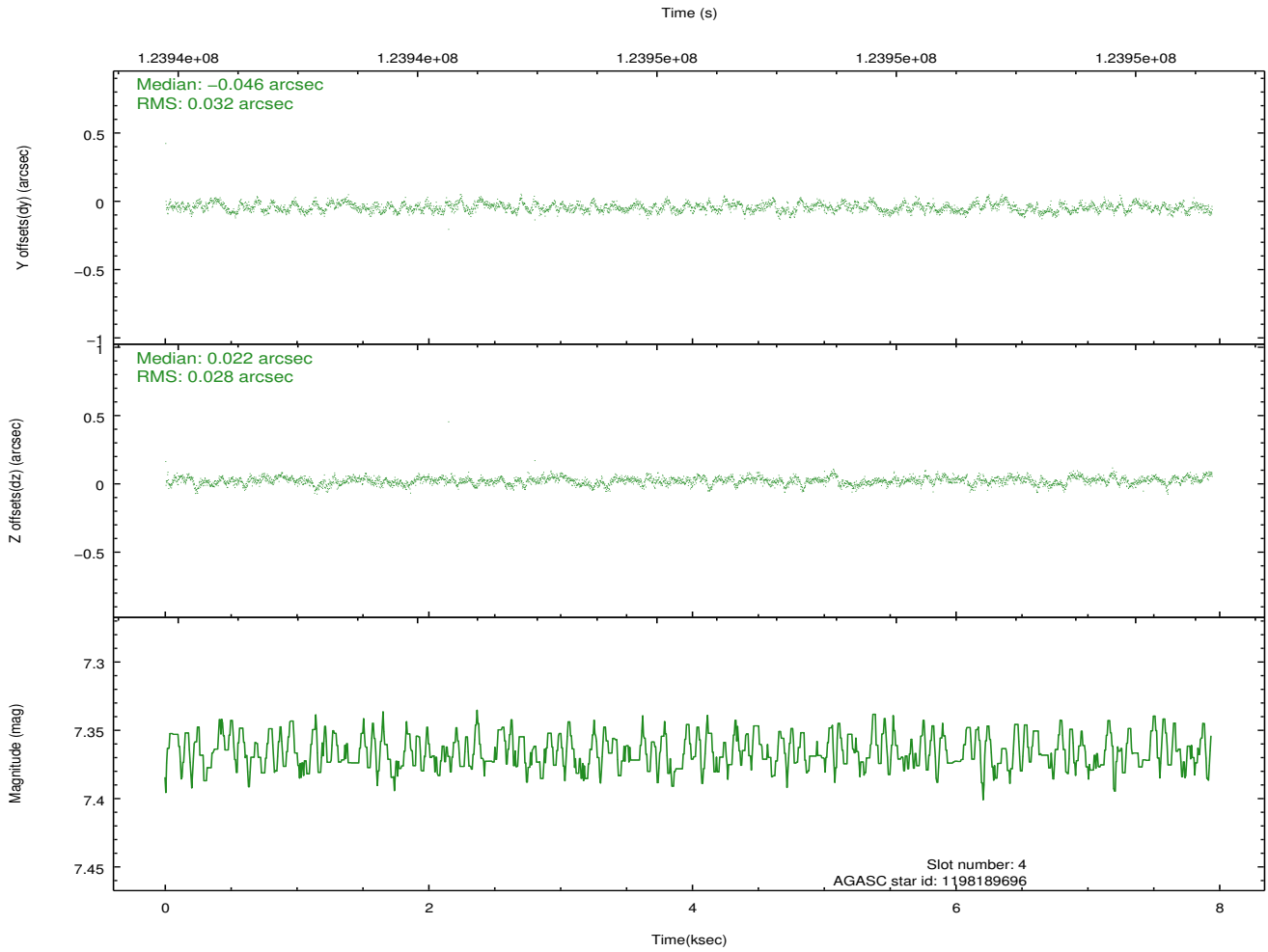
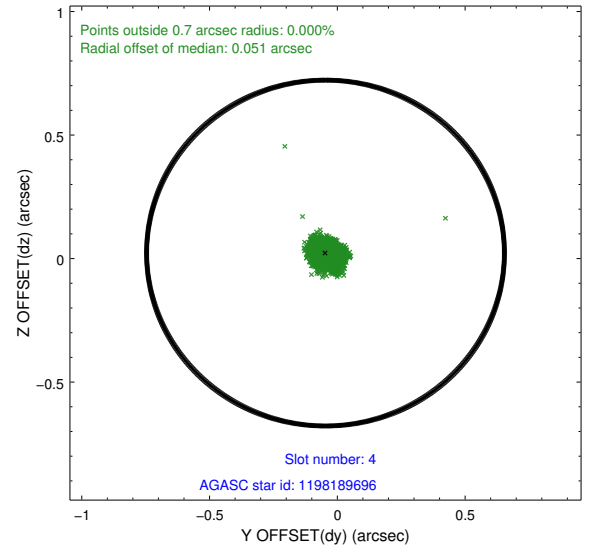
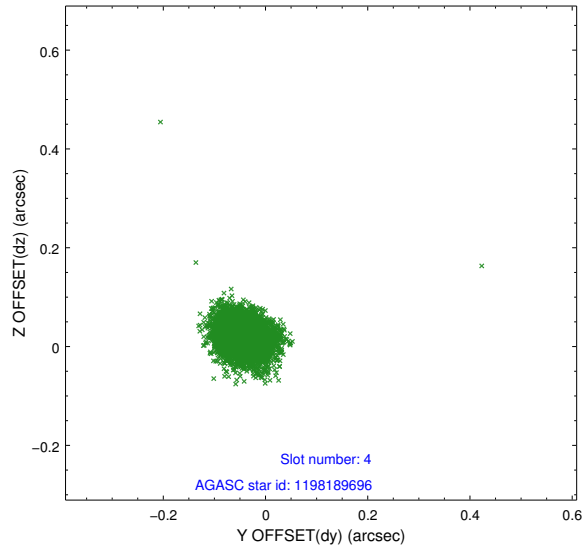
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1937	-0.023	0.020	0.006	0.011	0.000000	0.000000	936.65	-831.59
1	FID	ACIS-I-5	7.24	1936	-0.038	0.030	0.006	0.011	0.000000	0.000000	-1811.09	1065.55
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	1197885328	7.23	3874	0.024	-0.066	0.062	0.097	16.283090	-71.733943	-998.15	995.15
4	GUIDE	1198189696	7.37	3873	-0.046	0.022	0.044	0.071	15.223750	-72.697522	1004.41	-2067.00
5	GUIDE	1197750936	7.56	3873	0.027	-0.070	0.051	0.085	15.387940	-71.549550	-2148.05	609.89
6	GUIDE	1198283128	8.01	3873	-0.077	0.073	0.055	0.087	17.272580	-72.642428	2223.63	-228.96
7	GUIDE	1197878768	9.63	3870	0.062	0.038	0.122	0.202	16.656786	-71.304581	-1932.06	2298.19

2.4 Star Slots

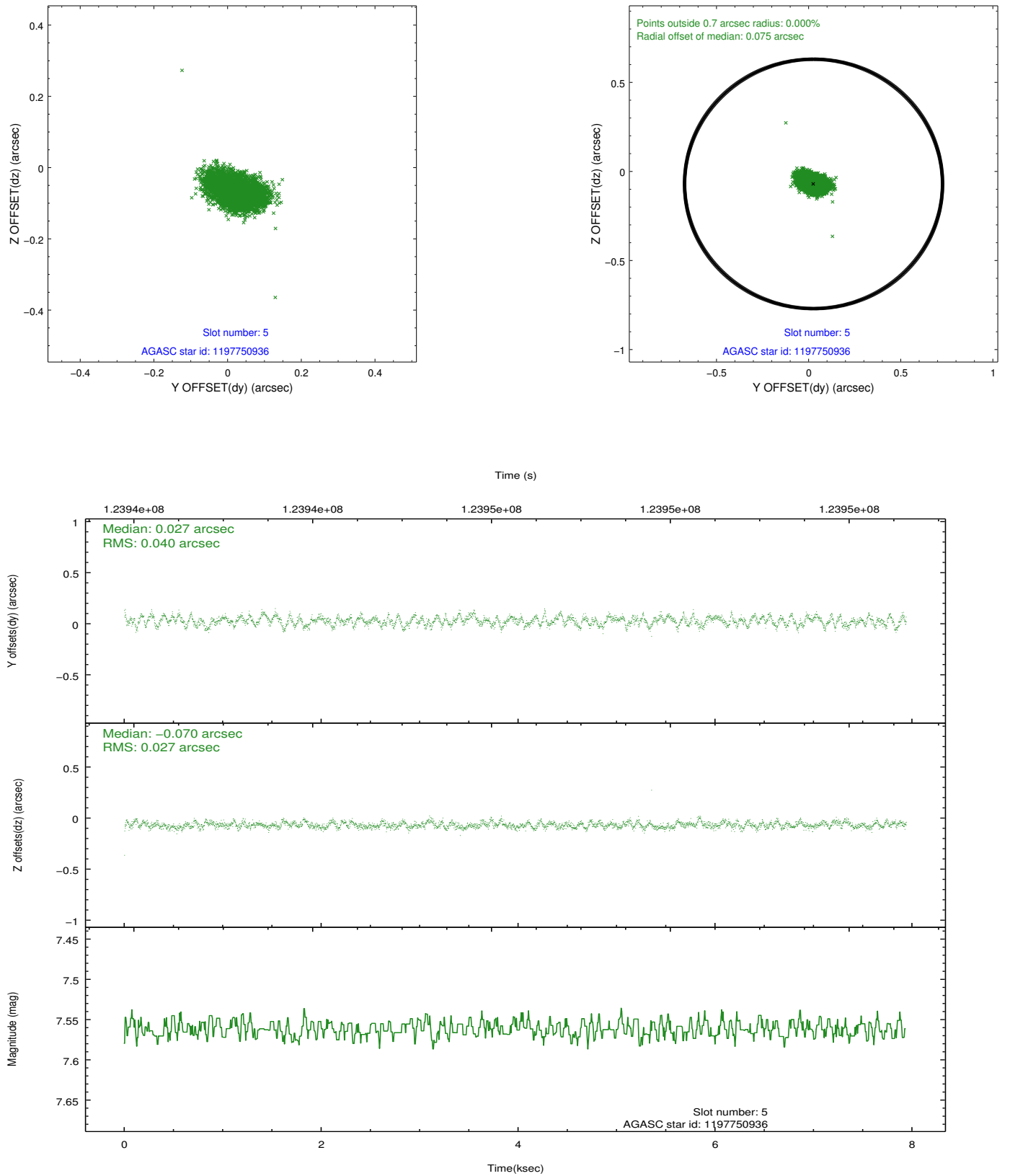
2.4.1 Slot 3



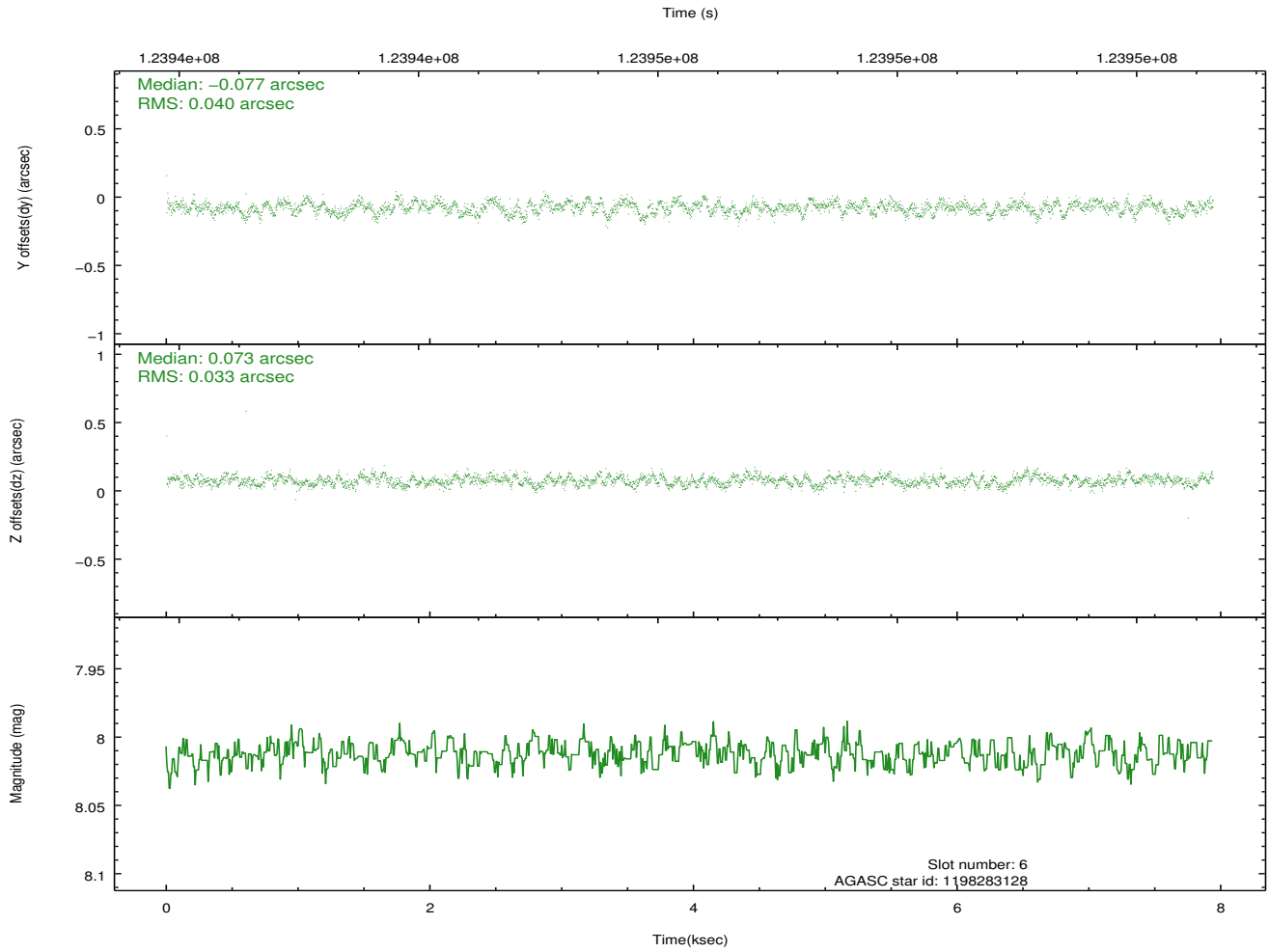
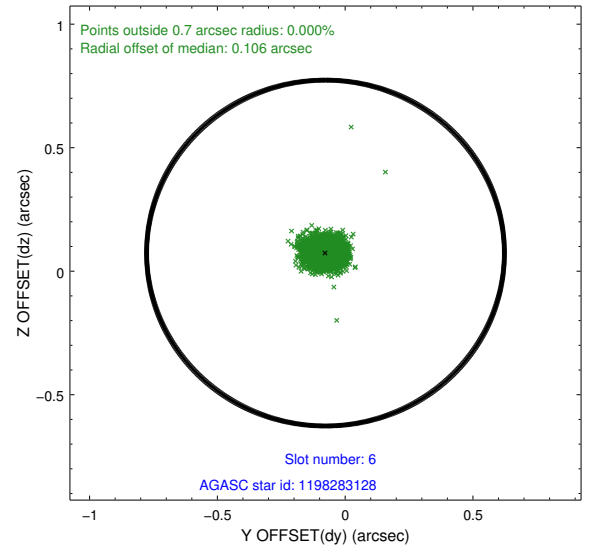
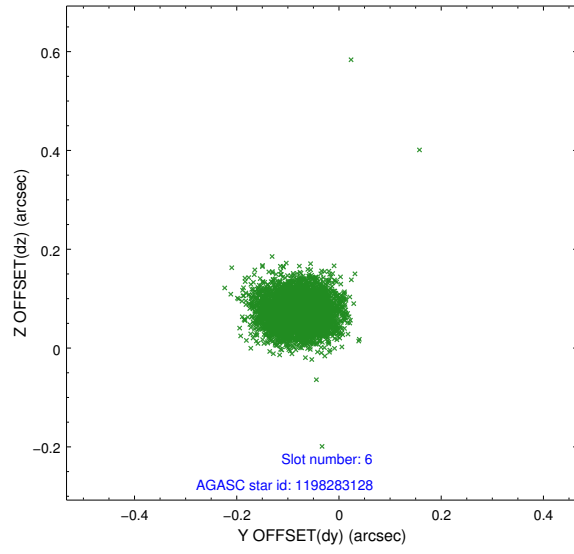
2.4.2 Slot 4



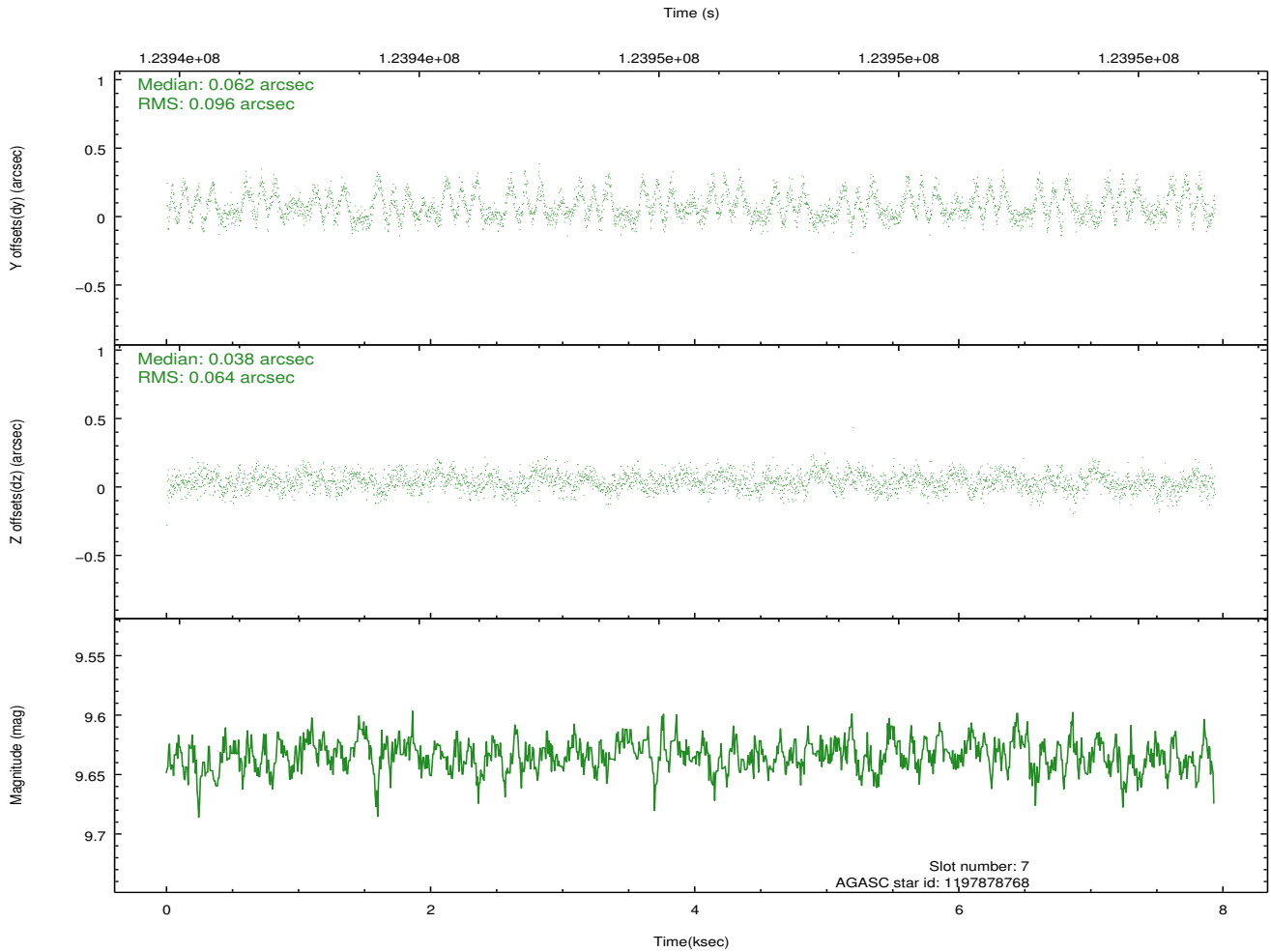
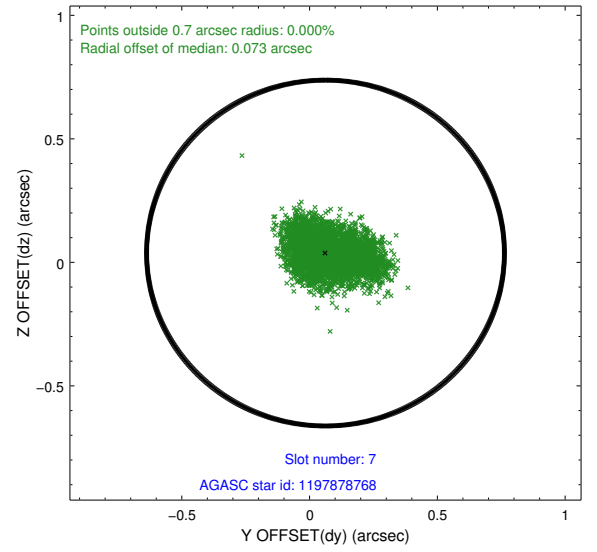
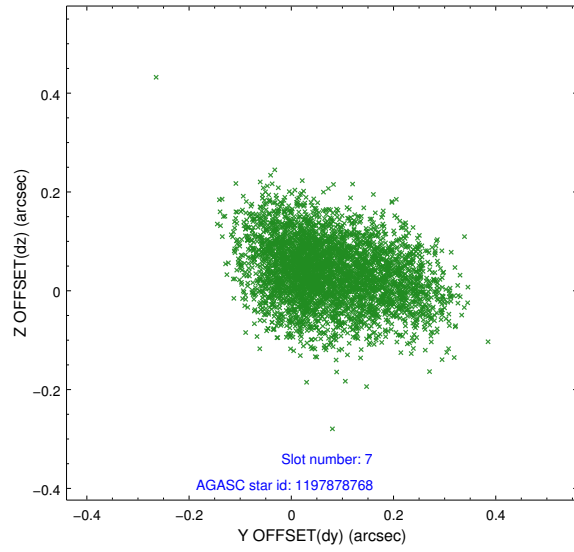
2.4.3 Slot 5



2.4.4 Slot 6

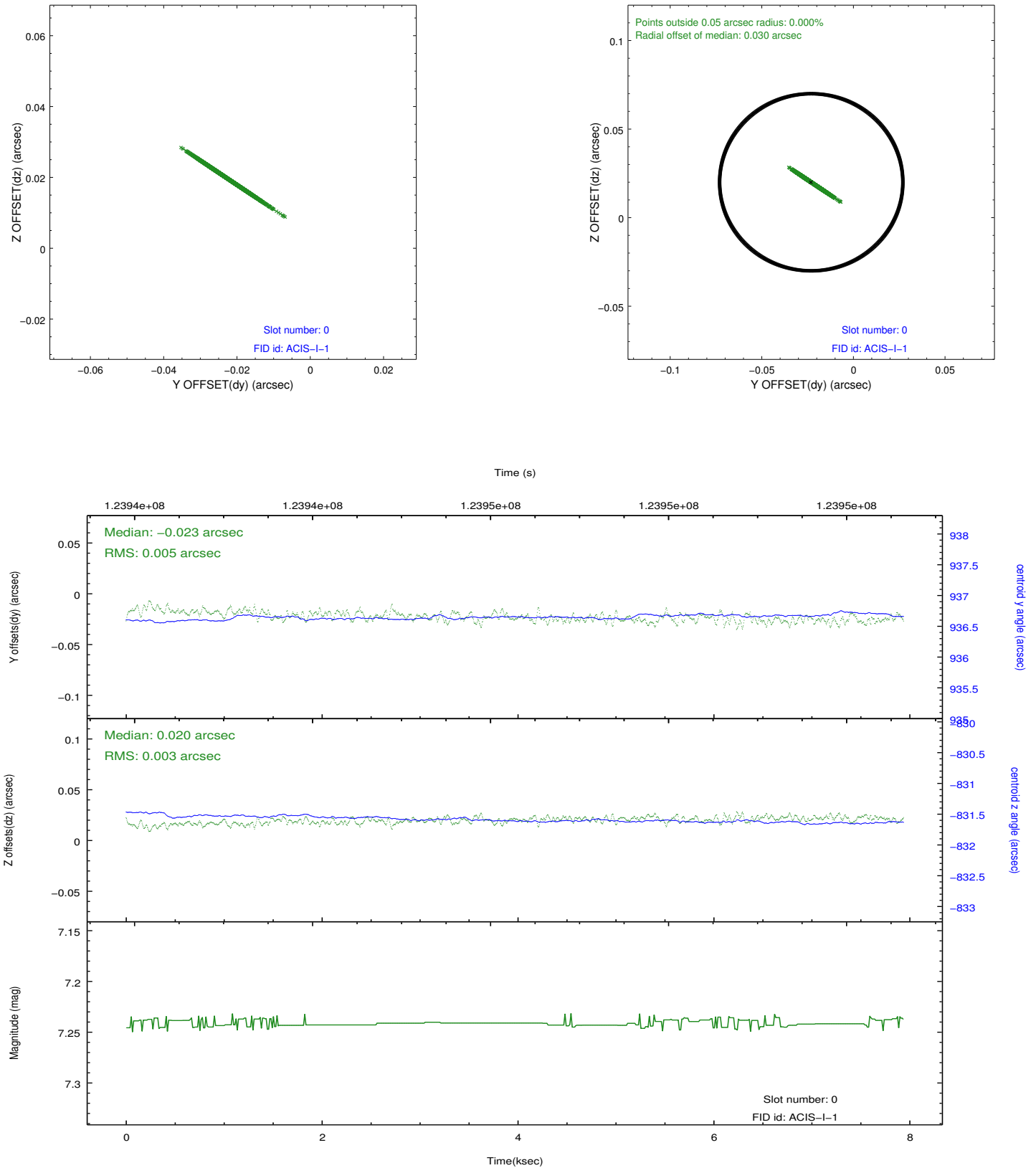


2.4.5 Slot 7

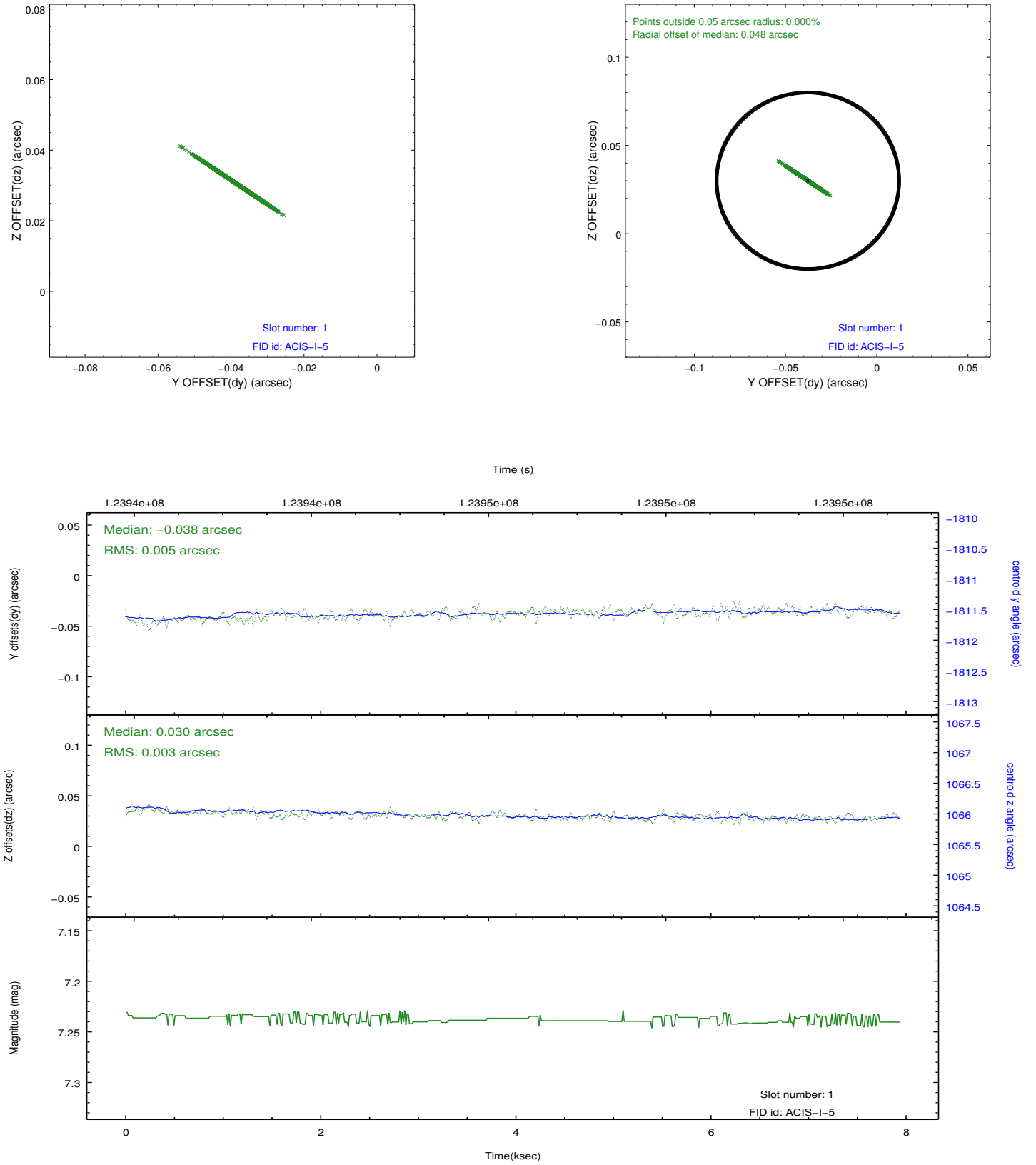


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.932

A.2 Comments

The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution. Window constraint met.