

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1842 - L2 Version 3
Chandra X-Ray Center

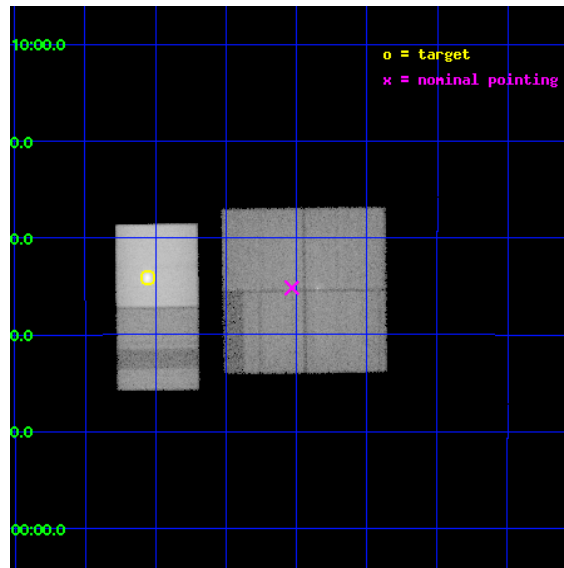
L2 Processing Date : Sep 1 2012

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1 Front

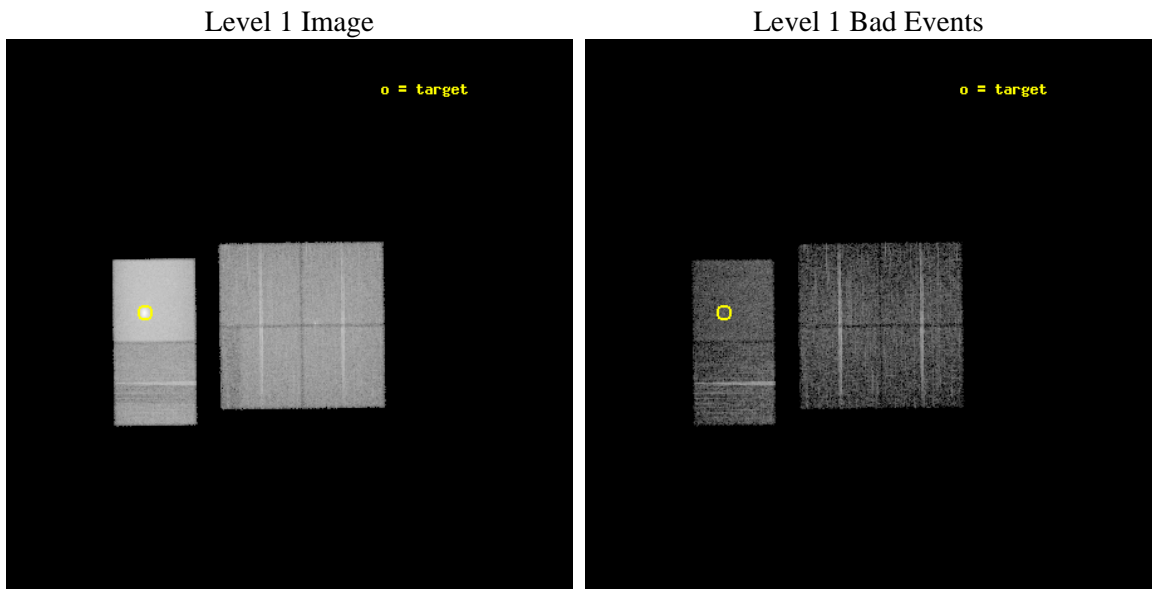
seq_num	590222	Sequence number
obs_id	1842	Observation id
title	HRC RESPONSE TO CONTINUUM SOURCE.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S3, T=120, Offsets=-1,15,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.13300568616	Nominal RA [deg]
dec_nom	-10.585982551003	Nominal Dec [deg]
roll_nom	269.34208214602	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7499.4594149292	Sum of GTIs [s]
livetime	7404.496744185	Livetime [s]
ontime0	7359.9335060716	Sum of GTIs [s]
ontime1	7379.4206463844	Sum of GTIs [s]
ontime2	7321.1241229773	Sum of GTIs [s]
ontime3	7337.3699840009	Sum of GTIs [s]
ontime6	7395.7890594602	Sum of GTIs [s]
ontime7	7499.4594149292	Sum of GTIs [s]
l2events	536734	Number of level 2 events



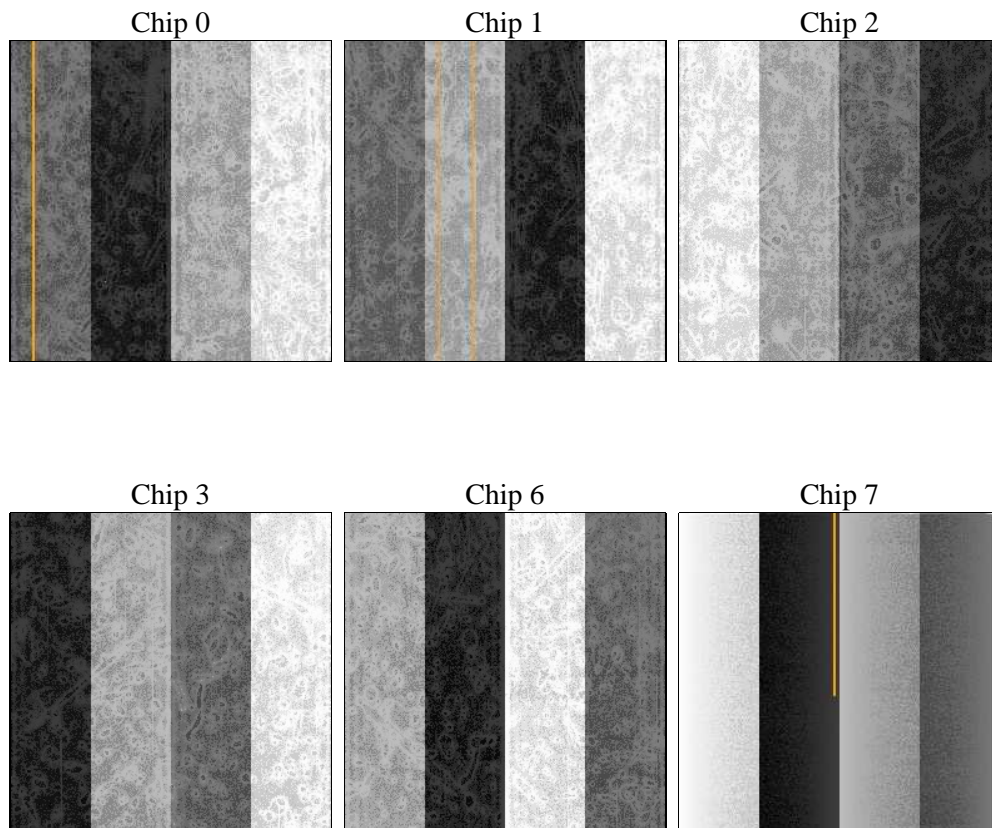
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7499.4594149292	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	7359.9335060716	Sum of GTIs [s]
date	2012-09-01T03:56:45	Date and time of file creation	ontime1	7379.4206463844	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7321.1241229773	Sum of GTIs [s]
			ontime3	7337.3699840009	Sum of GTIs [s]
			ontime6	7395.7890594602	Sum of GTIs [s]
			ontime7	7499.4594149292	Sum of GTIs [s]
			l1events	796597	Number of level 1 events

2.1.4 Events

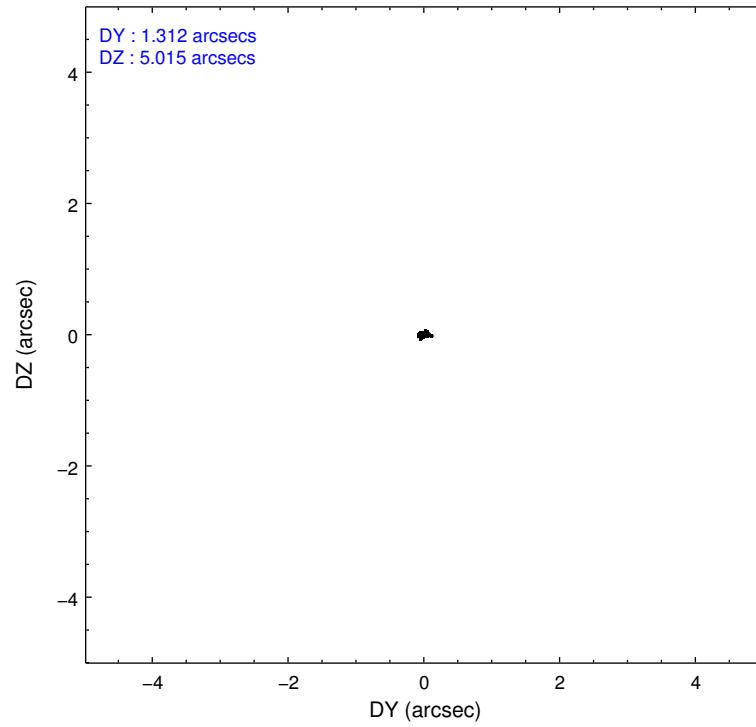
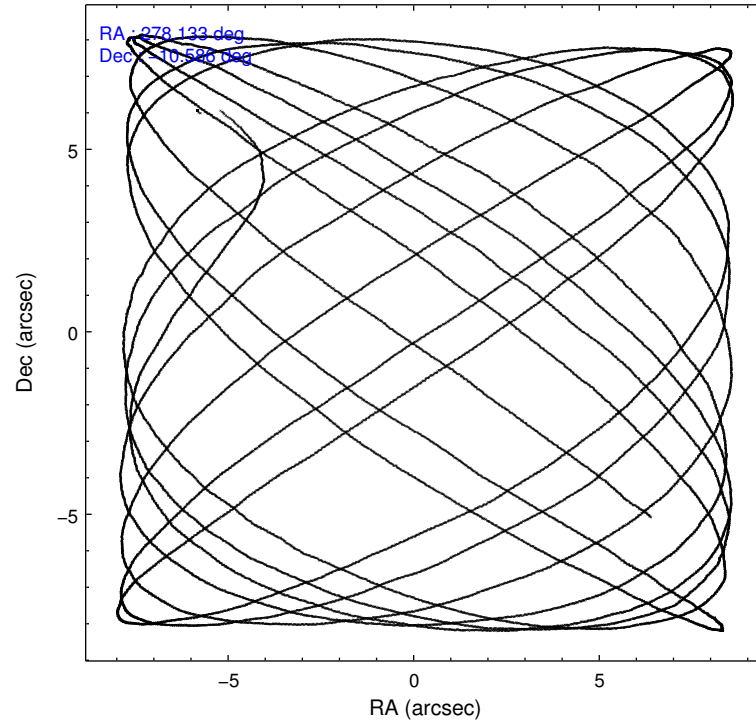
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	90828	95628	87763	95032	107816	319530	grade 0 events	35250	35947	29632	34901	40684	32740
rejected events	36364	37972	39654	40400	45207	40186		38%	37%	33%	36%	37%	10%
rejected %	40%	39%	45%	42%	41%	12%	grade 1 events	132	118	139	148	155	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	12329	14448	11430	13296	14372	49910
								13%	15%	13%	13%	13%	15%
							grade 3 events	1529	1858	1389	1599	1581	21598
								1%	1%	1%	1%	1%	6%
							grade 4 events	1741	1858	1530	1640	1832	21634
								1%	1%	1%	1%	1%	6%
							grade 5 events	1629	1723	1611	1748	2069	6961
								1%	1%	1%	1%	1%	2%
							grade 6 events	3641	3572	4156	3223	4184	153724
								4%	3%	4%	3%	3%	48%
							grade 7 events	34577	36104	37876	38477	42939	32854
								38%	37%	43%	40%	39%	10%

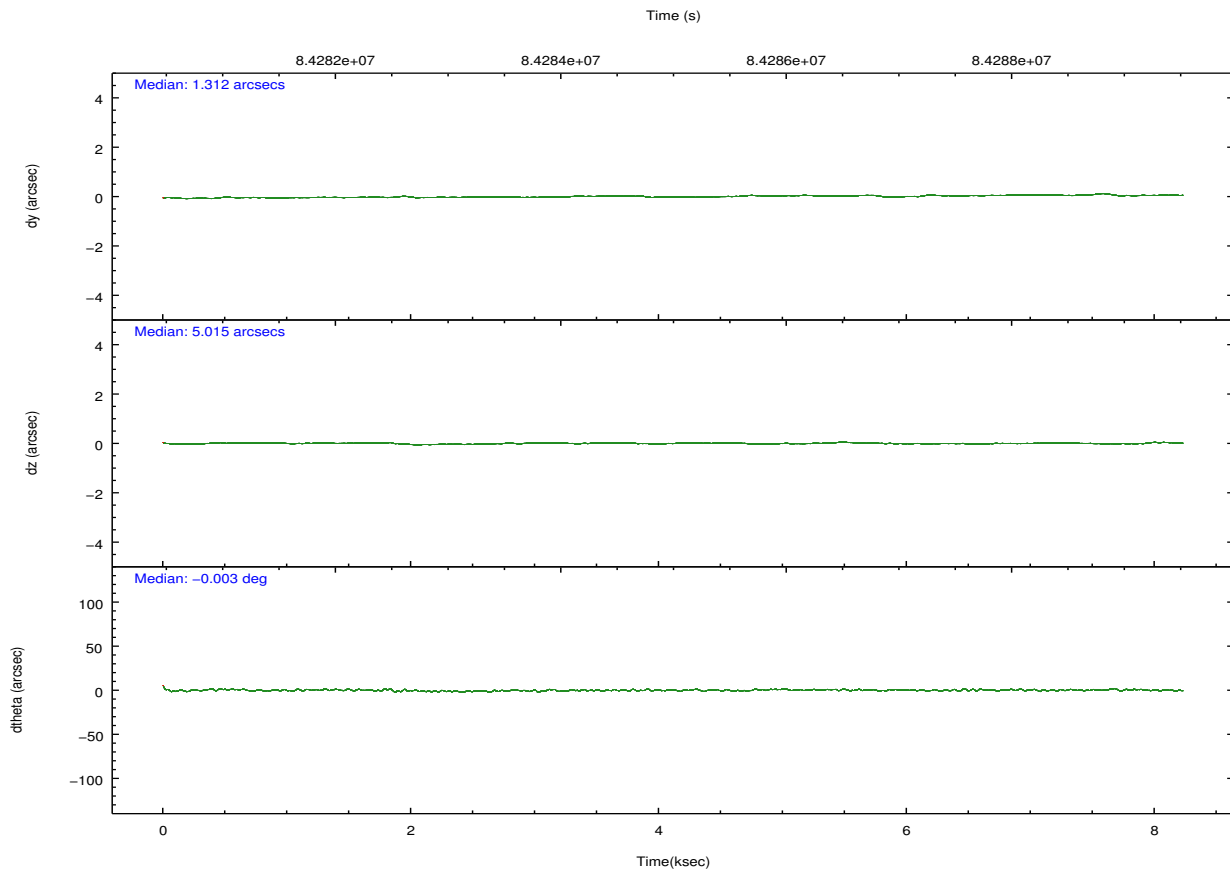
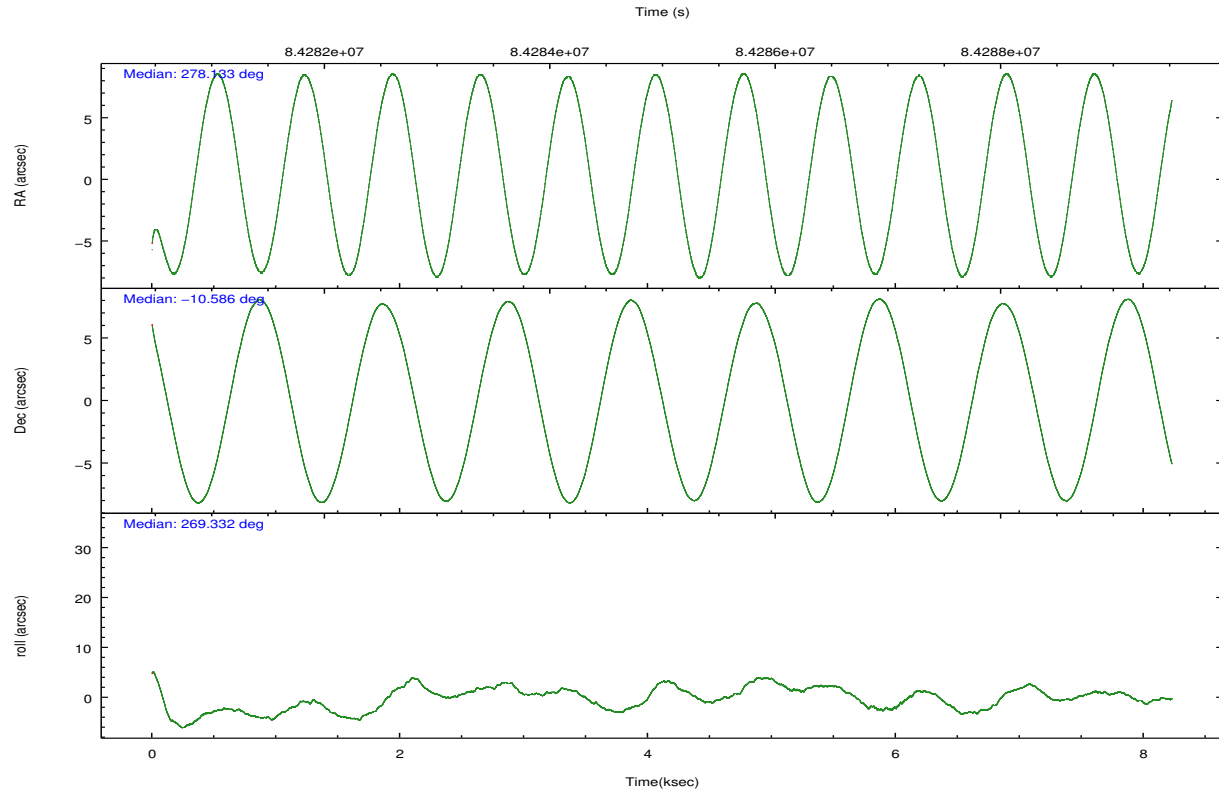
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	278.119395	278.133005686164
[deg] Pointing Dec	-10.561949	-10.58598255100318
[deg] Pointing Roll	269.130885	269.3420821460249
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-231.230463	-231.2390639691716
[mm] SIM translation stage offset	-2.362	-2.353389033758049
[s] Observation start time (MET)	84281065.184000	84280645.818866
Observation start date	2000-09-02T11:23:21	2000-09-02T11:17:25
[s] Observation end time (MET)	84289065.184000	84289427.506696
Observation end date	2000-09-02T13:36:41	2000-09-02T13:43:47
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



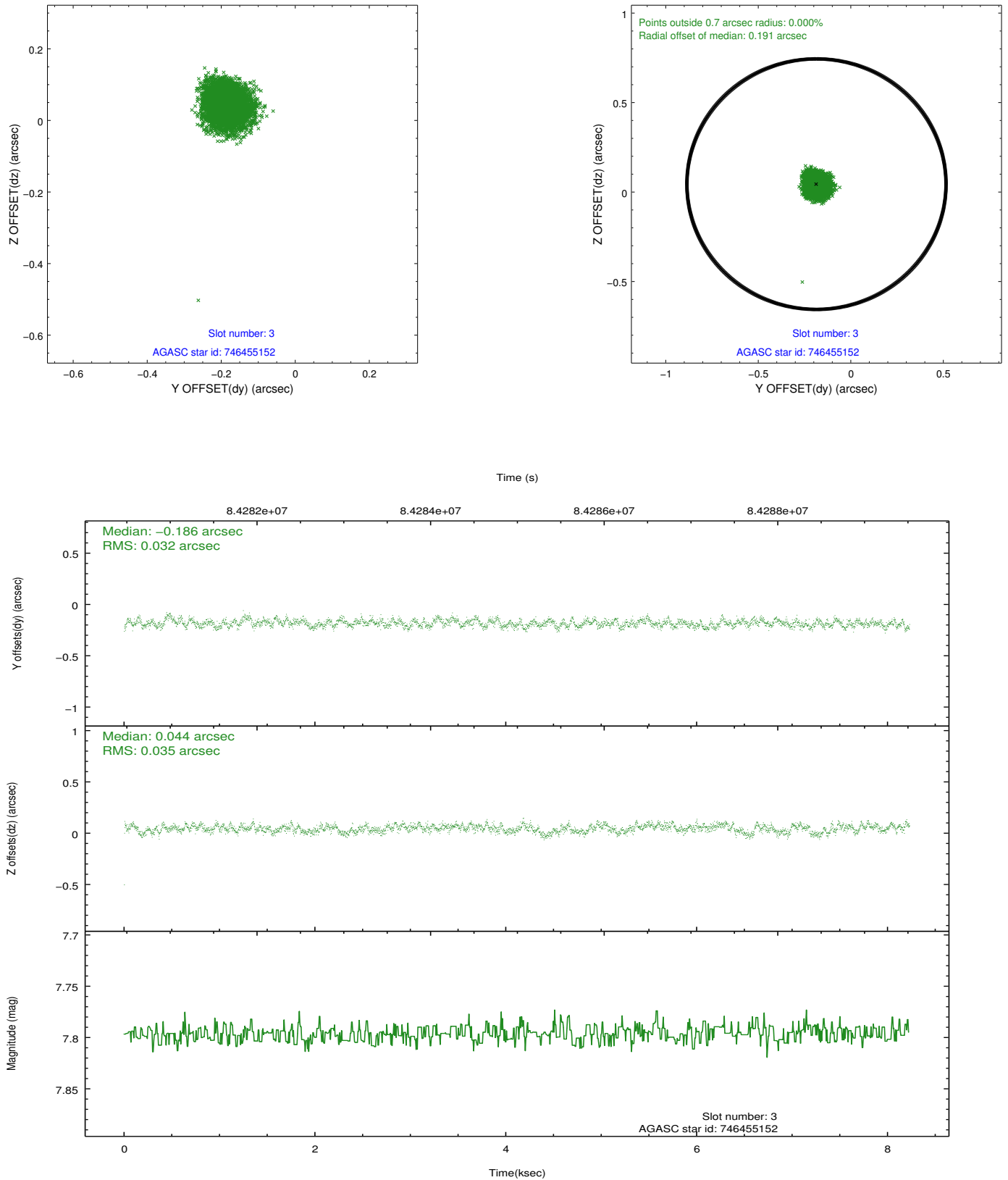


Slot Statistics

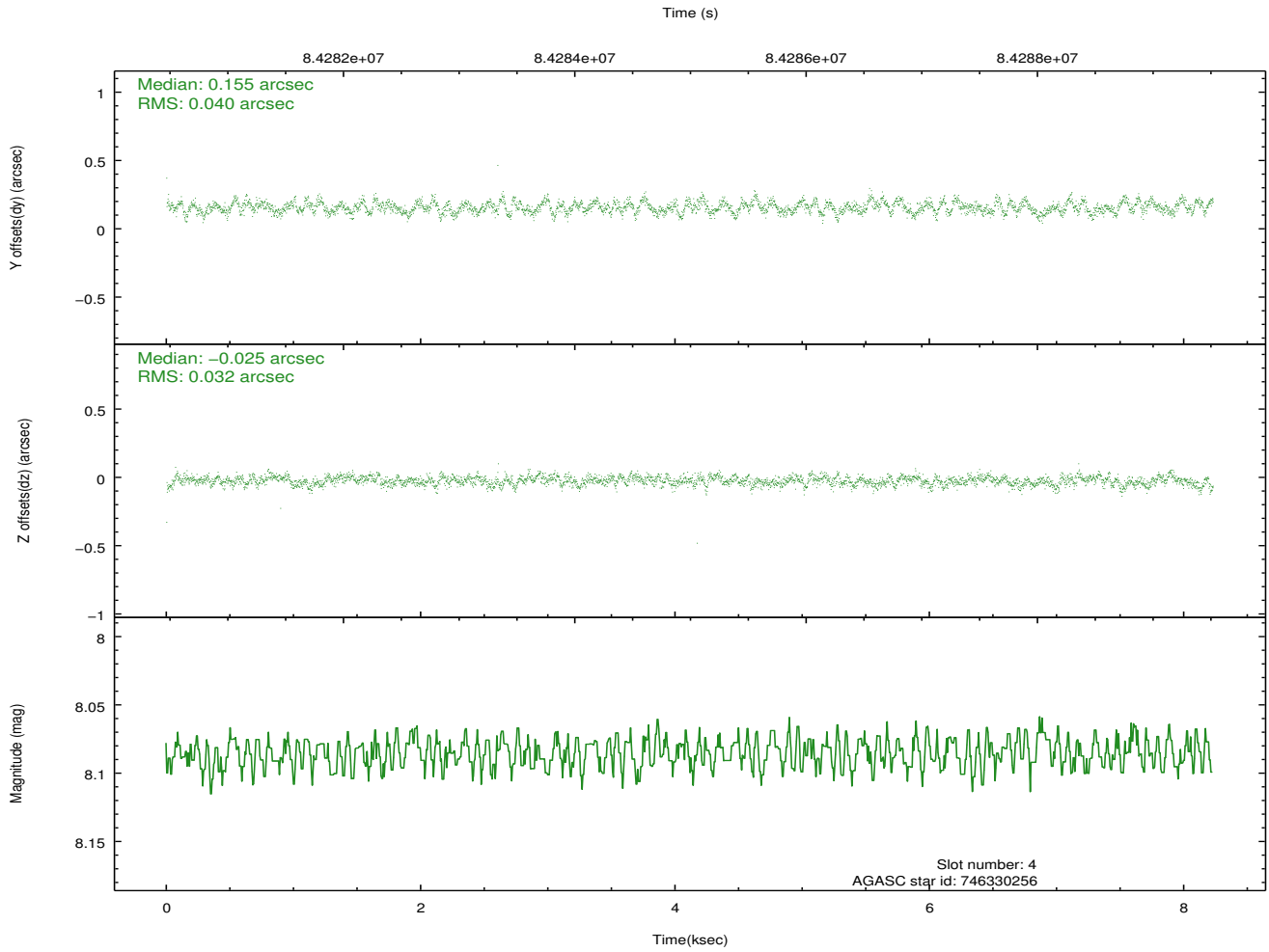
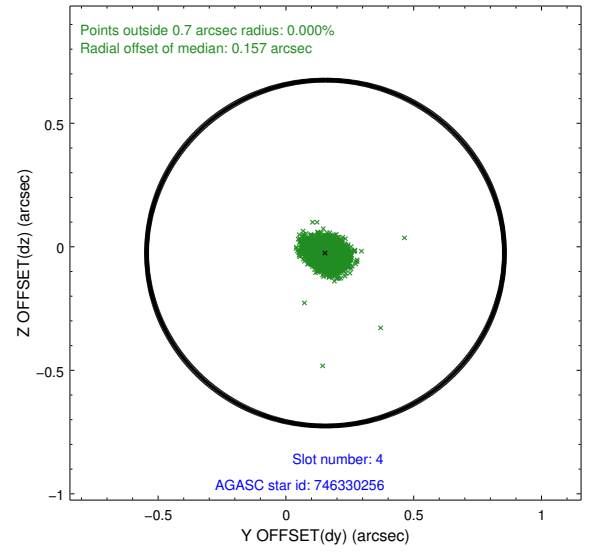
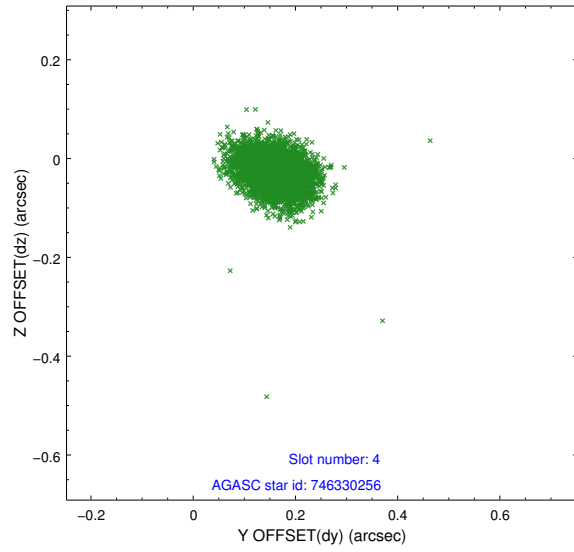
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	2008	-0.056	-0.060	0.009	0.016	0.000000	0.000000	-755.85	-882.72
1	FID	ACIS-I-4	7.18	2008	-0.024	0.054	0.006	0.011	0.000000	0.000000	2157.88	1023.25
2	FID	ACIS-I-5	7.23	2008	-0.021	0.075	0.009	0.015	0.000000	0.000000	-1808.68	1021.51
3	GUIDE	746455152	7.80	4015	-0.186	0.044	0.051	0.080	278.447893	-9.976732	-2122.86	1132.76
4	GUIDE	746330256	8.09	4015	0.155	-0.025	0.053	0.087	277.634401	-10.863955	1115.54	-1697.15
5	GUIDE	746462456	8.39	4015	-0.071	0.202	0.066	0.107	278.652171	-10.530173	-140.27	1883.94
6	GUIDE	746455112	8.92	4014	0.204	-0.216	0.081	0.132	278.266531	-10.703234	502.00	528.92
7	GUIDE	746338464	9.46	4014	-0.103	-0.003	0.100	0.162	277.427613	-10.292647	-927.96	-2464.38

2.4 Star Slots

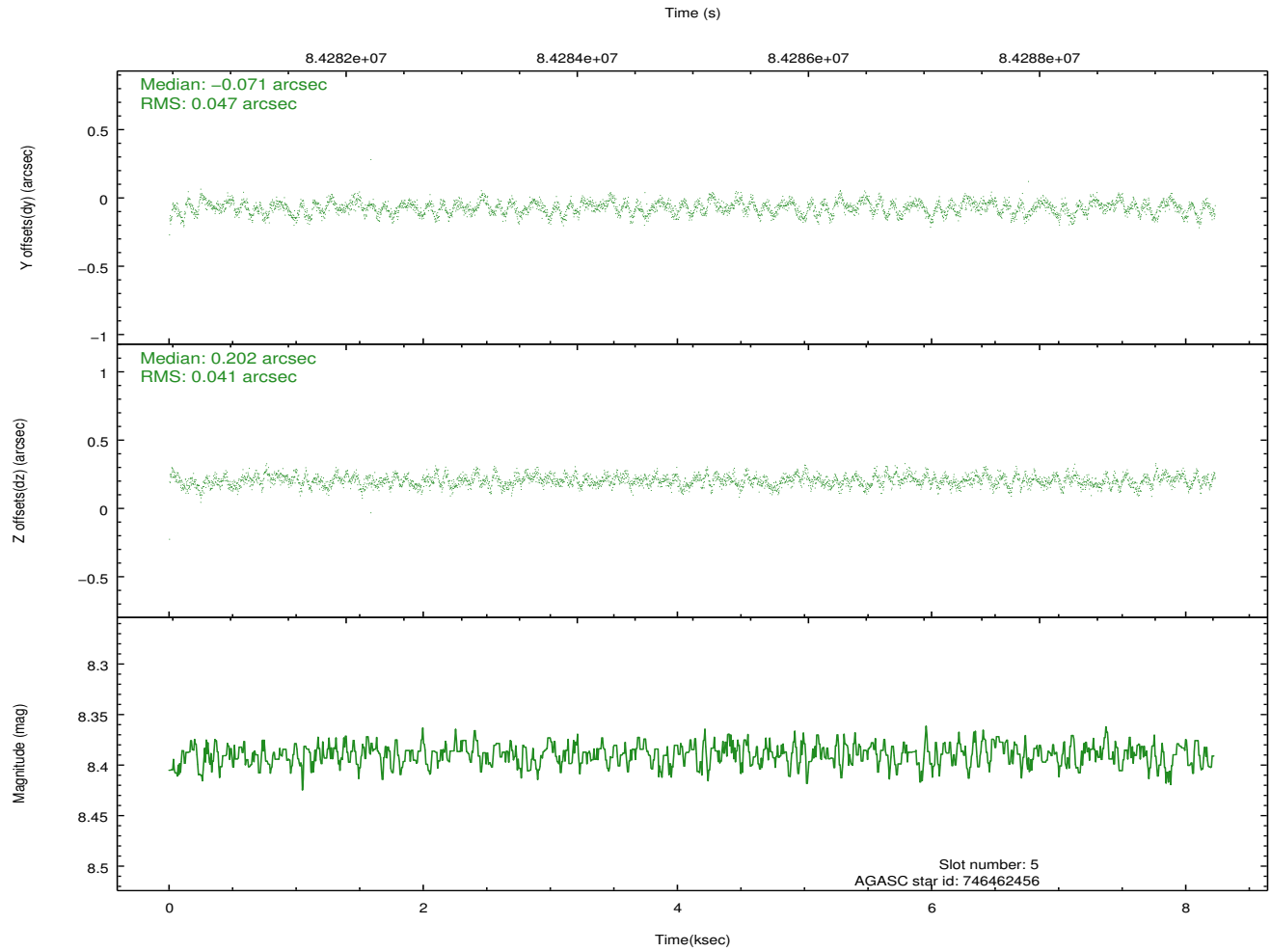
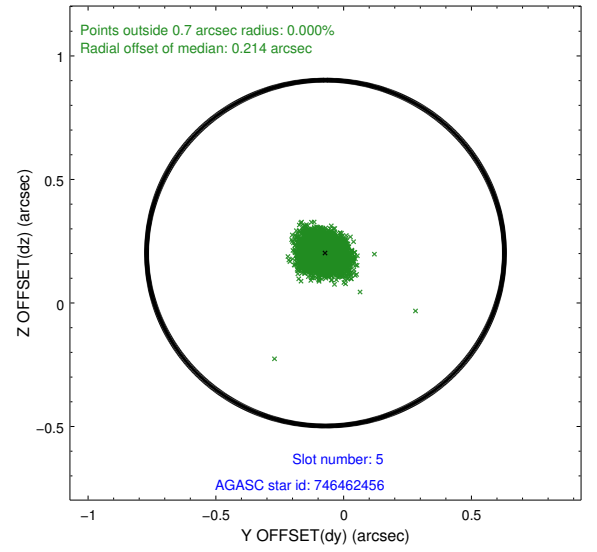
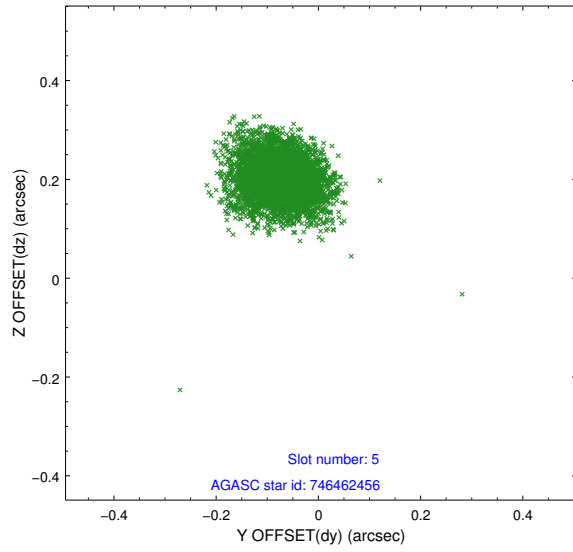
2.4.1 Slot 3



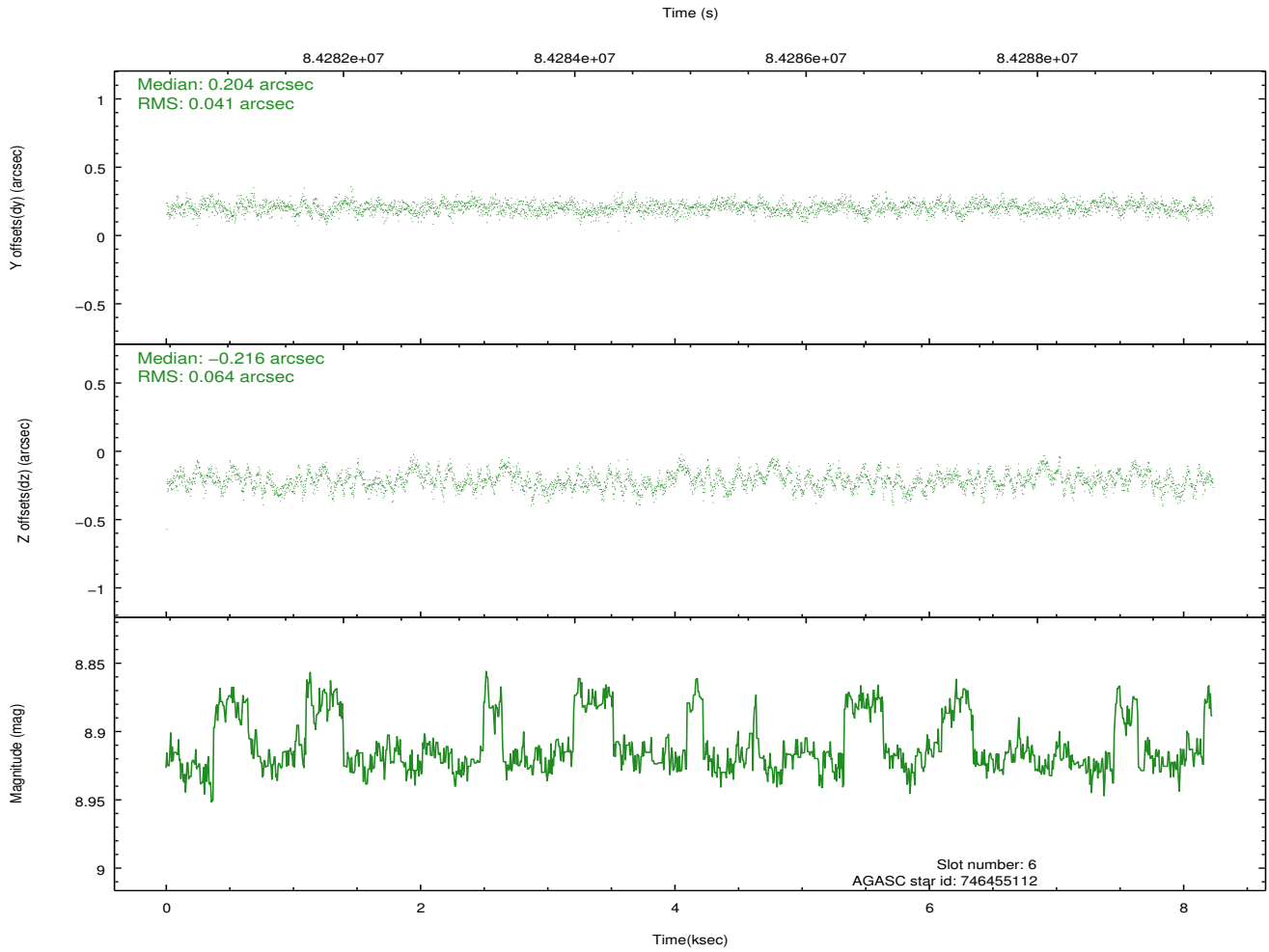
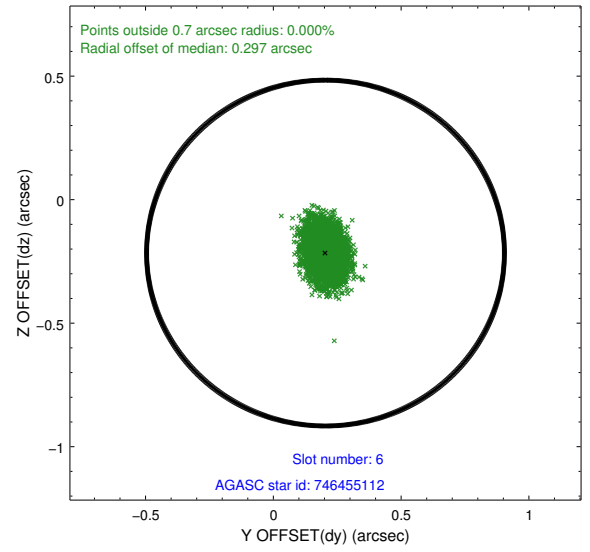
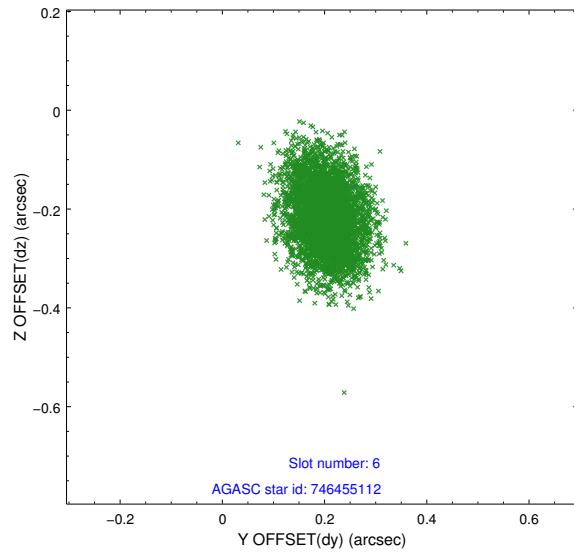
2.4.2 Slot 4



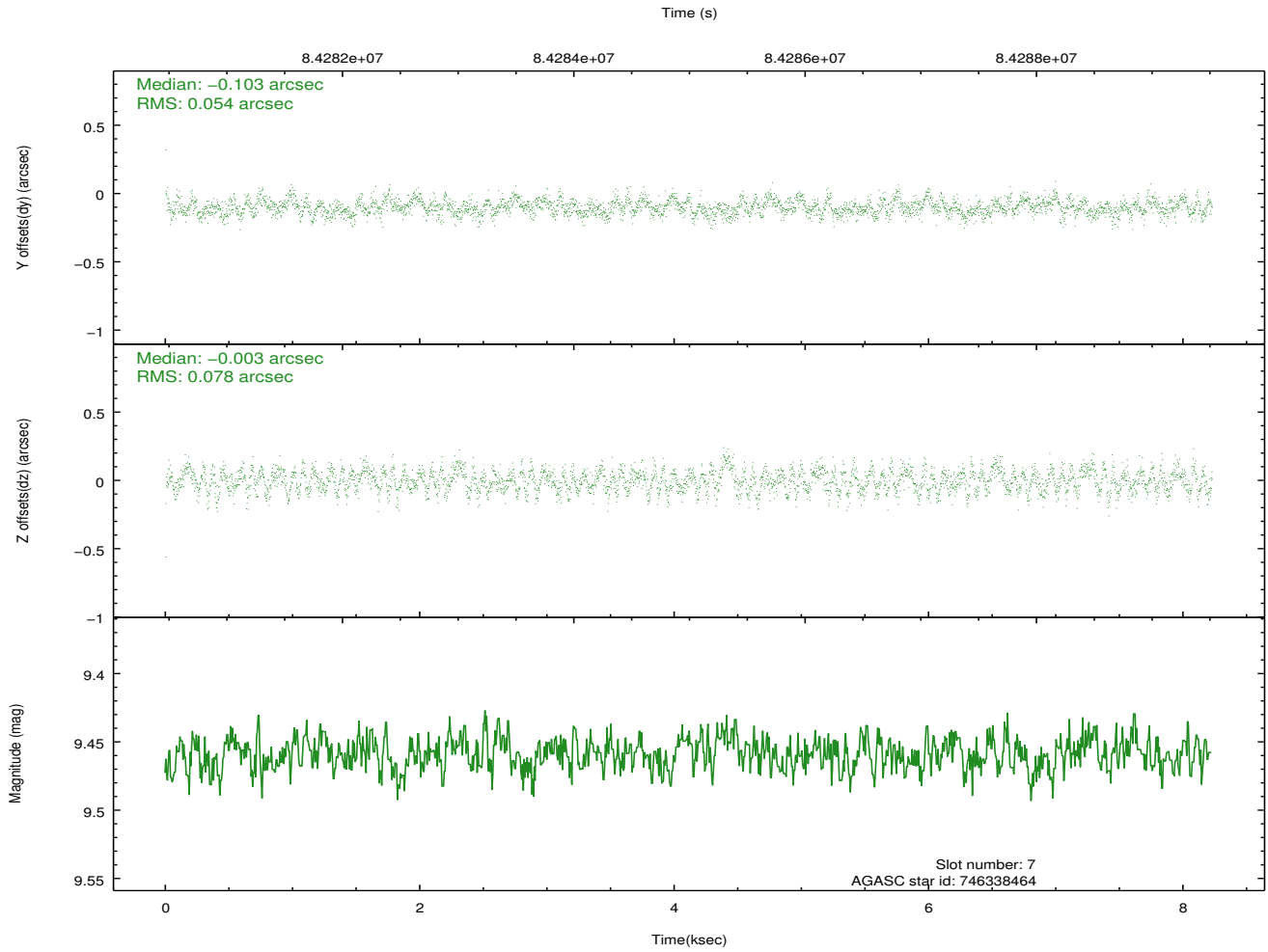
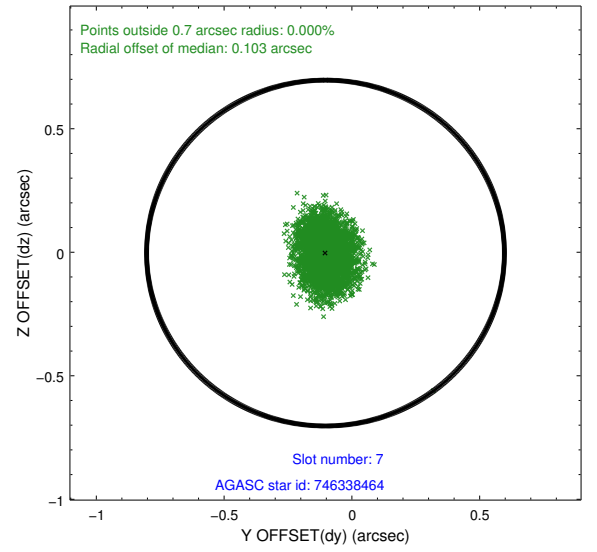
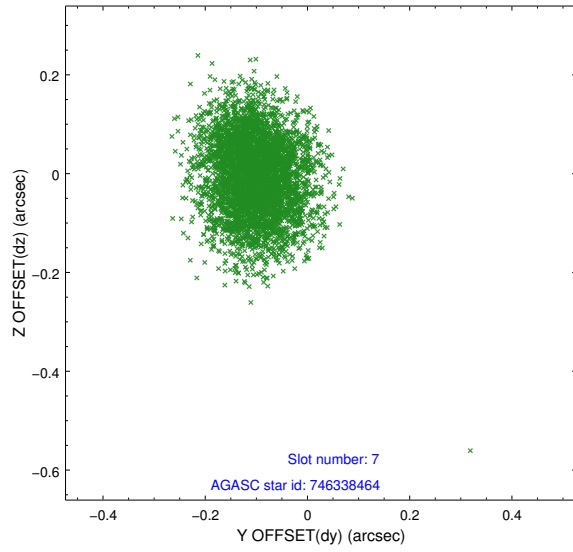
2.4.3 Slot 5



2.4.4 Slot 6

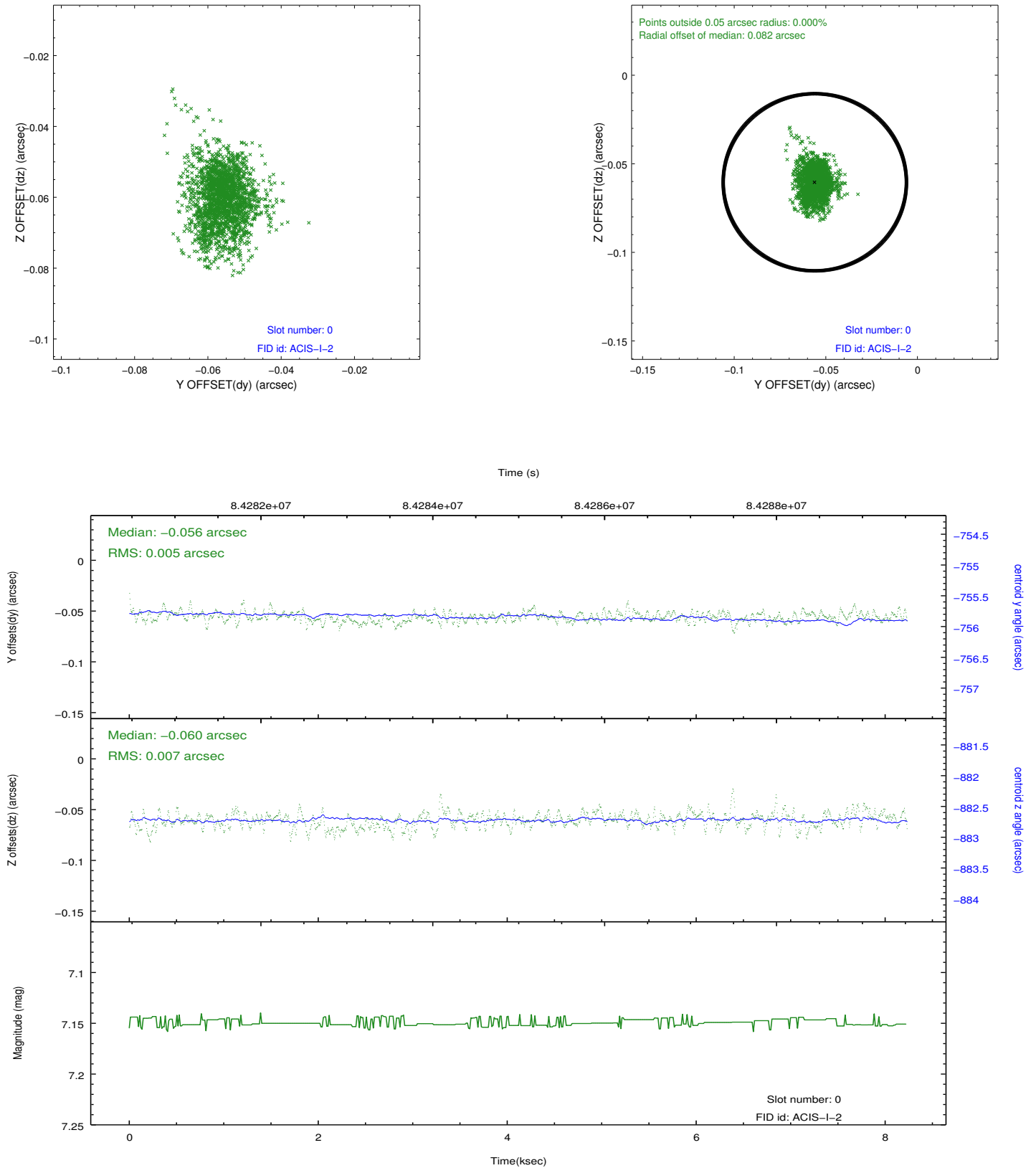


2.4.5 Slot 7

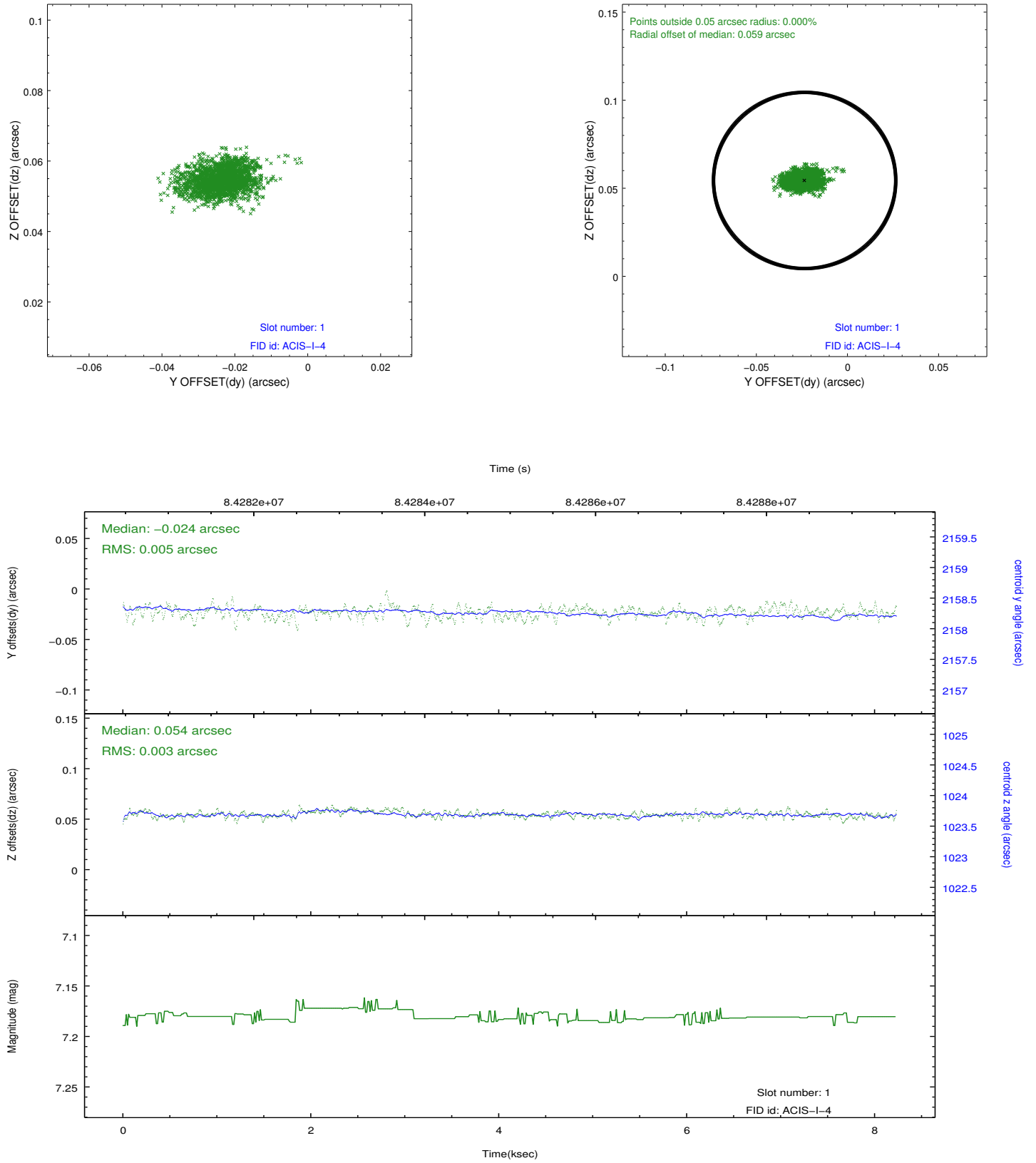


2.5 FID Slots

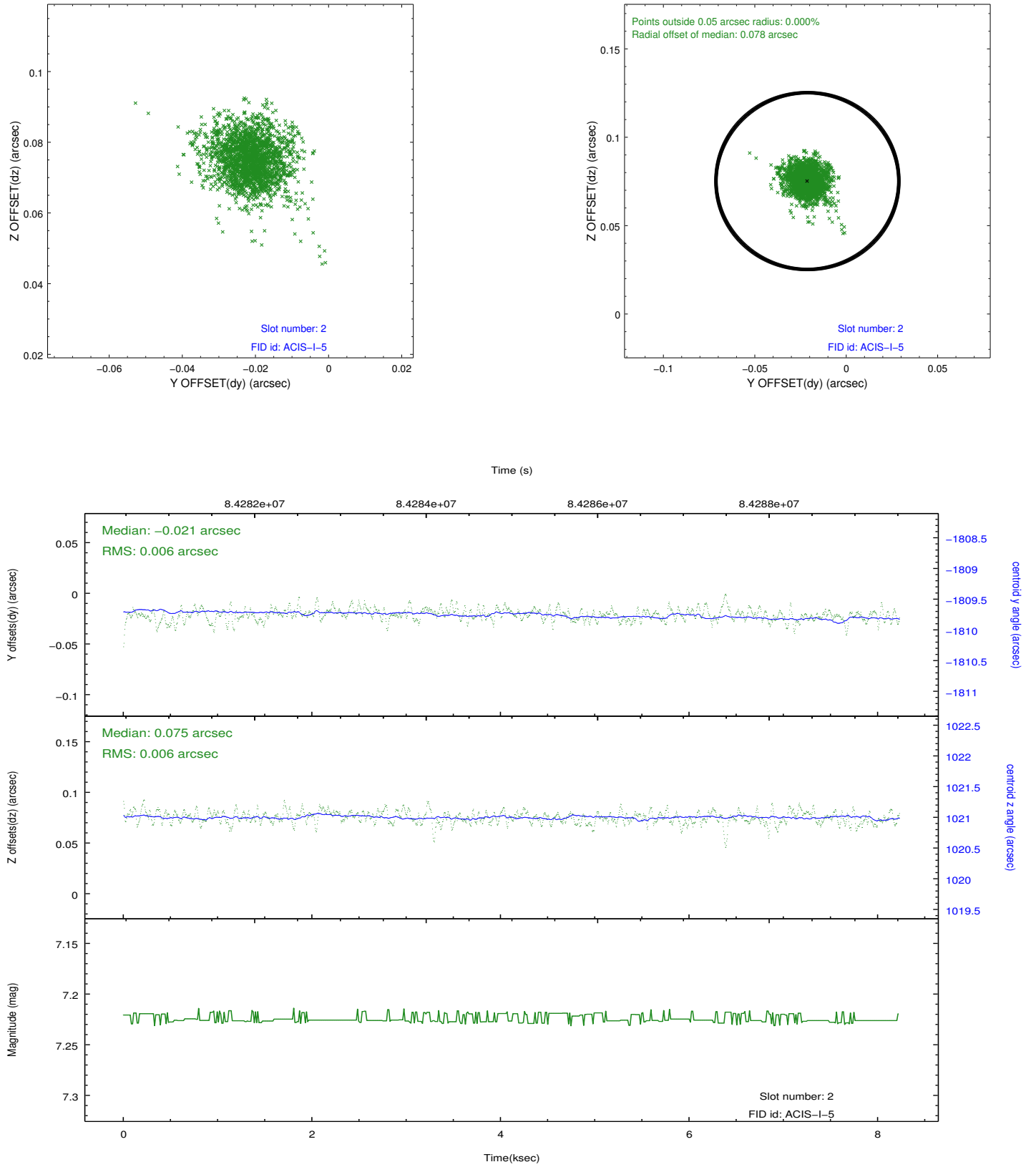
2.5.1 Slot 0



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)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.504

A.2 Comments

Spike in count rate from about 10 counts per second to about 100 - 300 counts per second between 4 and 8 ksec into the observation. Most of this time period is not included in the good time interval, and therefore is not in the Level 2 data products.