

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1764 - L2 Version 4
Chandra X-Ray Center

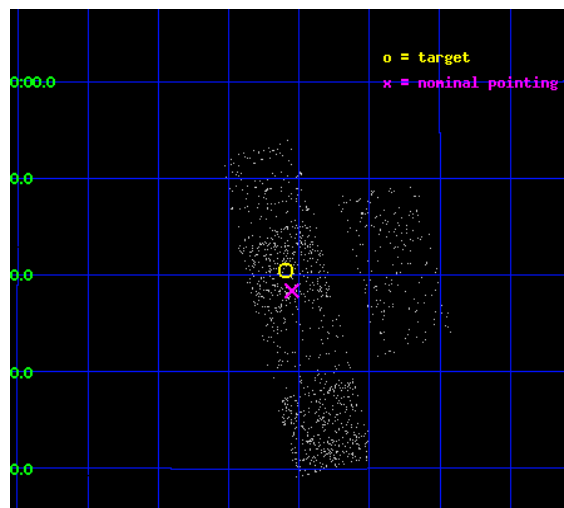
L2 Processing Date : Aug 31 2012

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1 Front

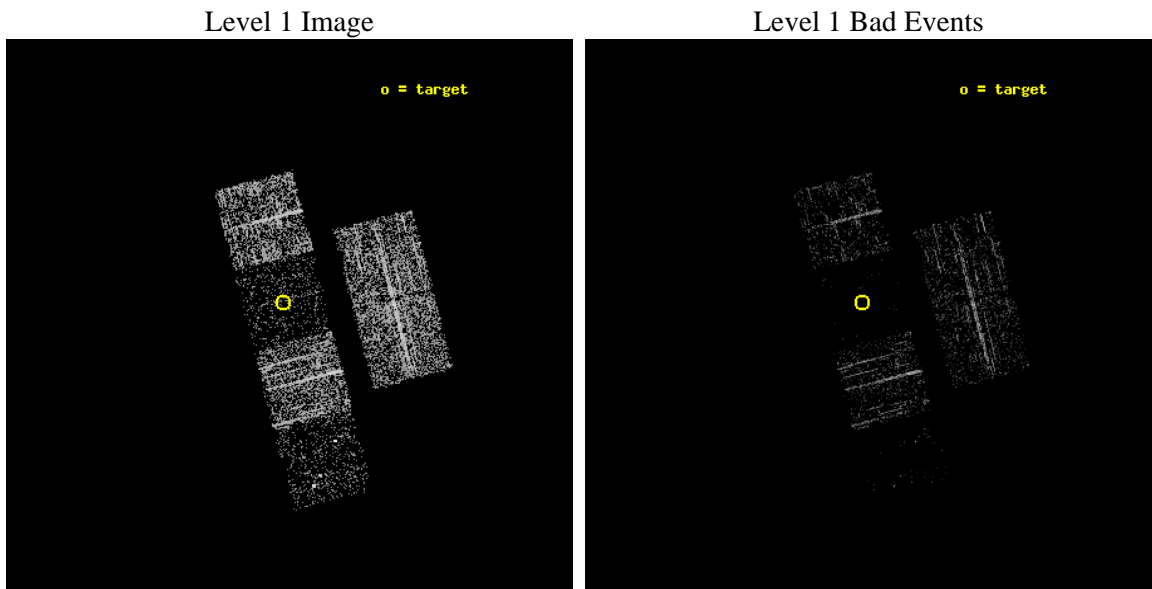
seq_num	100004	Sequence number
obs_id	1764	Observation id
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet c/LINEAR 1999 S4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.52388	Observer's specified target RA [deg]
dec_targ	10.67531	Observer's specified target Dec [deg]
ra_nom	182.51281197291	Nominal RA [deg]
dec_nom	10.639445486681	Nominal Dec [deg]
roll_nom	255.75627348555	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1196.7590707839	Sum of GTIs [s]
livetime	1181.6049868278	Livetime [s]
ontime2	1196.7590408623	Sum of GTIs [s]
ontime3	1196.7590408623	Sum of GTIs [s]
ontime5	1196.7590707839	Sum of GTIs [s]
ontime6	1196.7590408623	Sum of GTIs [s]
ontime7	1196.7590707839	Sum of GTIs [s]
ontime8	1196.7590408623	Sum of GTIs [s]
l2events	1323	Number of level 2 events



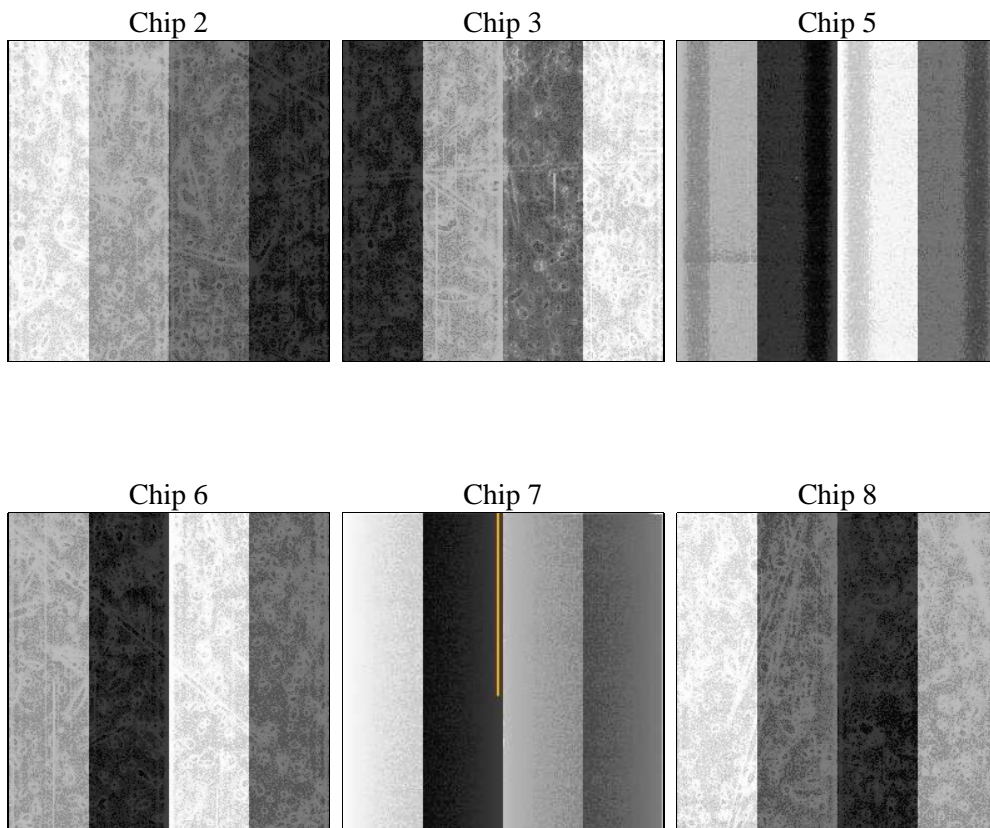
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1196.7590707839	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	1196.7590408623	Sum of GTIs [s]
date	2012-08-31T12:02:47	Date and time of file creation	ontime3	1196.7590408623	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1196.7590707839	Sum of GTIs [s]
			ontime6	1196.7590408623	Sum of GTIs [s]
			ontime7	1196.7590707839	Sum of GTIs [s]
			ontime8	1196.7590408623	Sum of GTIs [s]
			l1events	25240	Number of level 1 events

2.1.4 Events

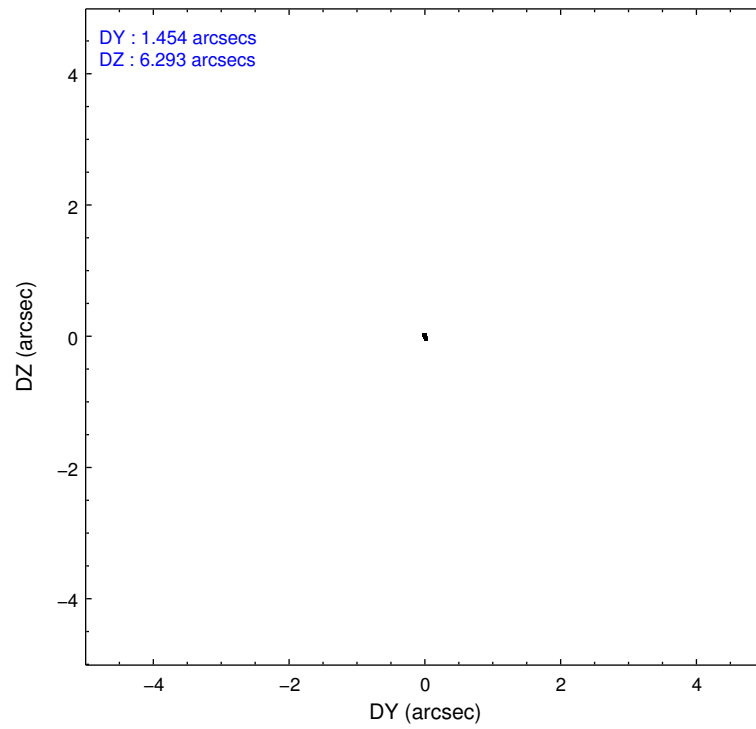
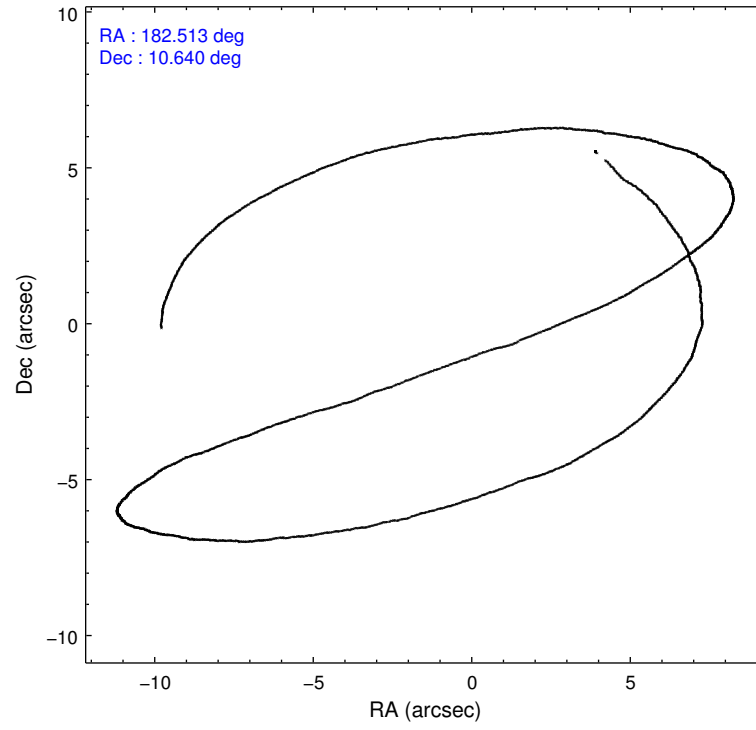
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	5784	5719	1381	5659	738	5959
rejected events	5594	5573	488	5487	246	4989
rejected %	96%	97%	35%	96%	33%	83%

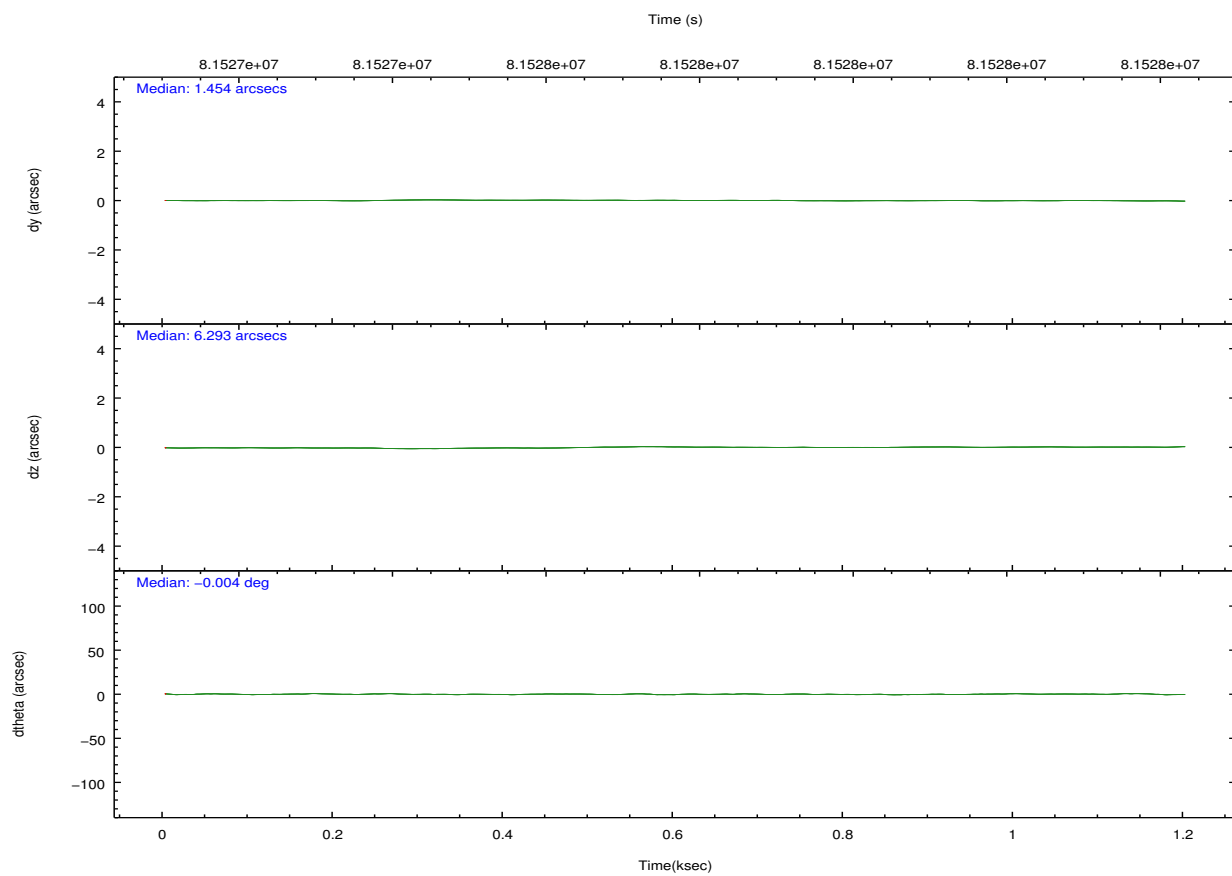
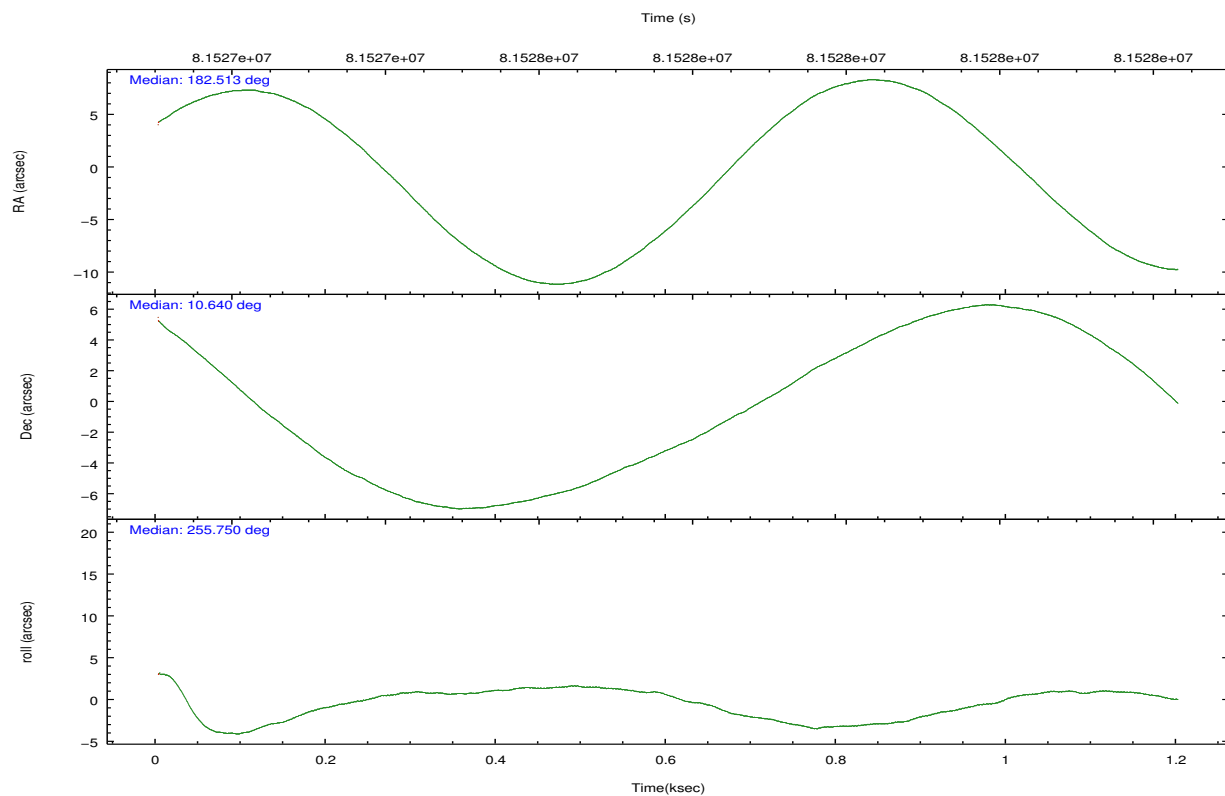
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	96	98	638	109	179	374
	1%	1%	46%	1%	24%	6%
grade 1 events	2	0	15	0	4	3
	0%	0%	1%	0%	0%	0%
grade 2 events	50	29	312	43	197	299
	0%	0%	22%	0%	26%	5%
grade 3 events	26	38	71	31	96	136
	0%	0%	5%	0%	13%	2%
grade 4 events	31	23	70	30	81	124
	0%	0%	5%	0%	10%	2%
grade 5 events	5	3	39	5	21	26
	0%	0%	2%	0%	2%	0%
grade 6 events	39	7	81	12	76	392
	0%	0%	5%	0%	10%	6%
grade 7 events	5535	5521	155	5429	84	4605
	95%	96%	11%	95%	11%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	182.504894	182.5128119729113	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.665652	10.63944548668133	Alternating exposures requested	N	N
[deg] Pointing Roll	255.601085	255.756273485546	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	81527370.184000	81526994.490834			
Observation start date	2000-08-01T14:28:26	2000-08-01T14:23:14			
[s] Observation end time (MET)	81528370.184000	81528504.82839			
Observation end date	2000-08-01T14:45:06	2000-08-01T14:48:24			
Read mode	TIMED	TIMED			

2.3 Aspect



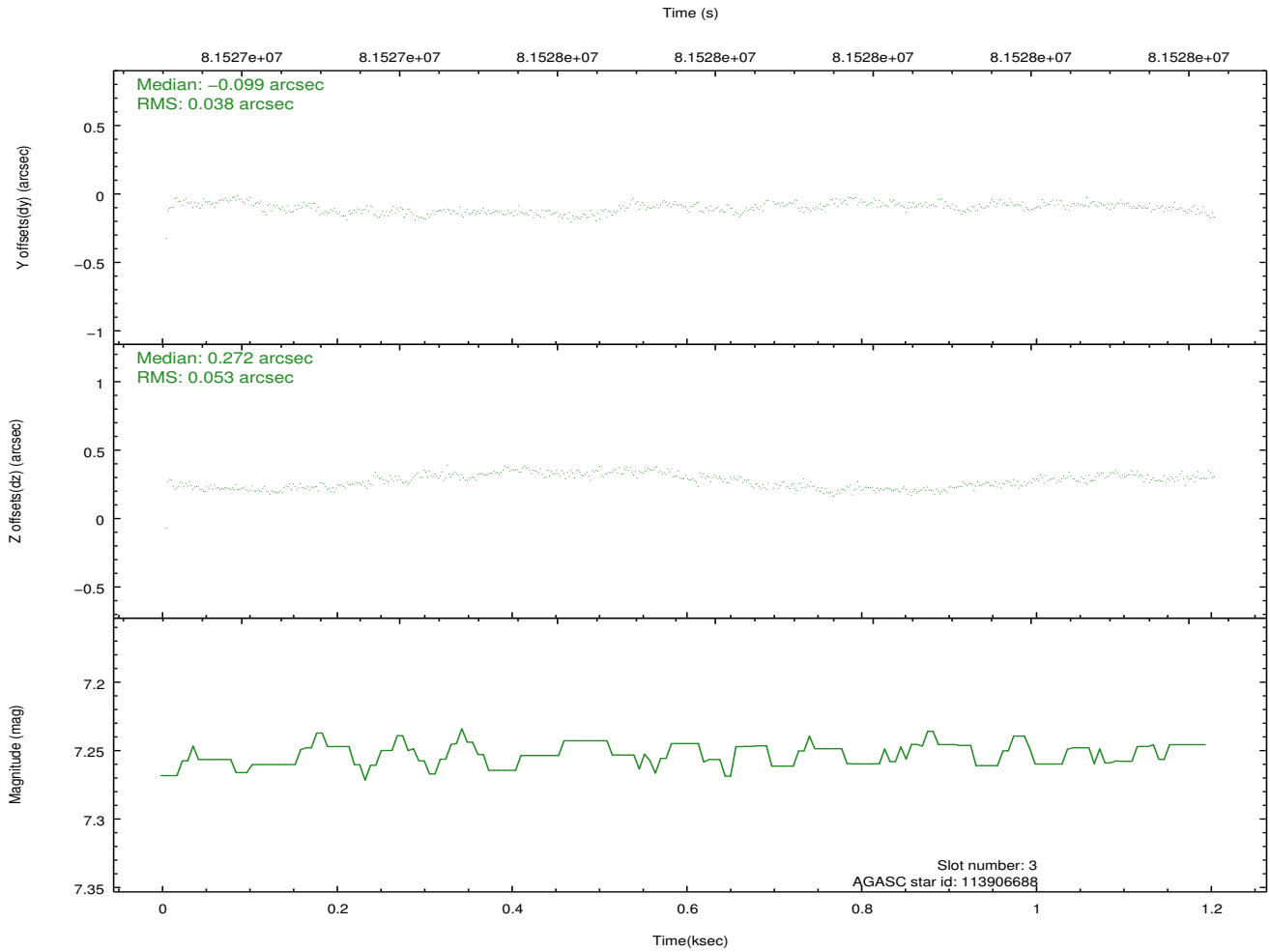
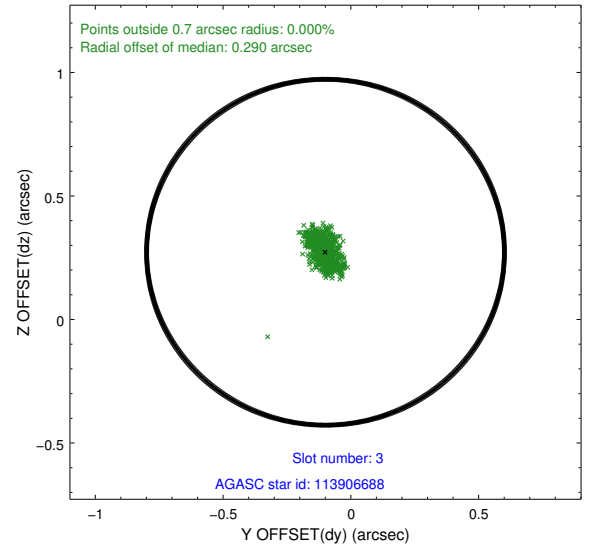
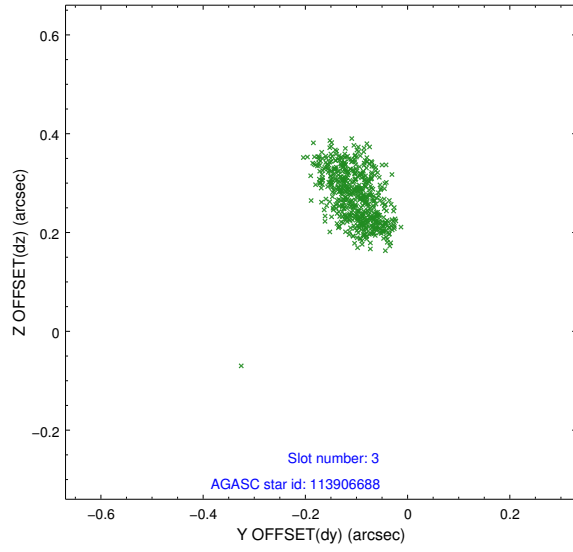


Slot Statistics

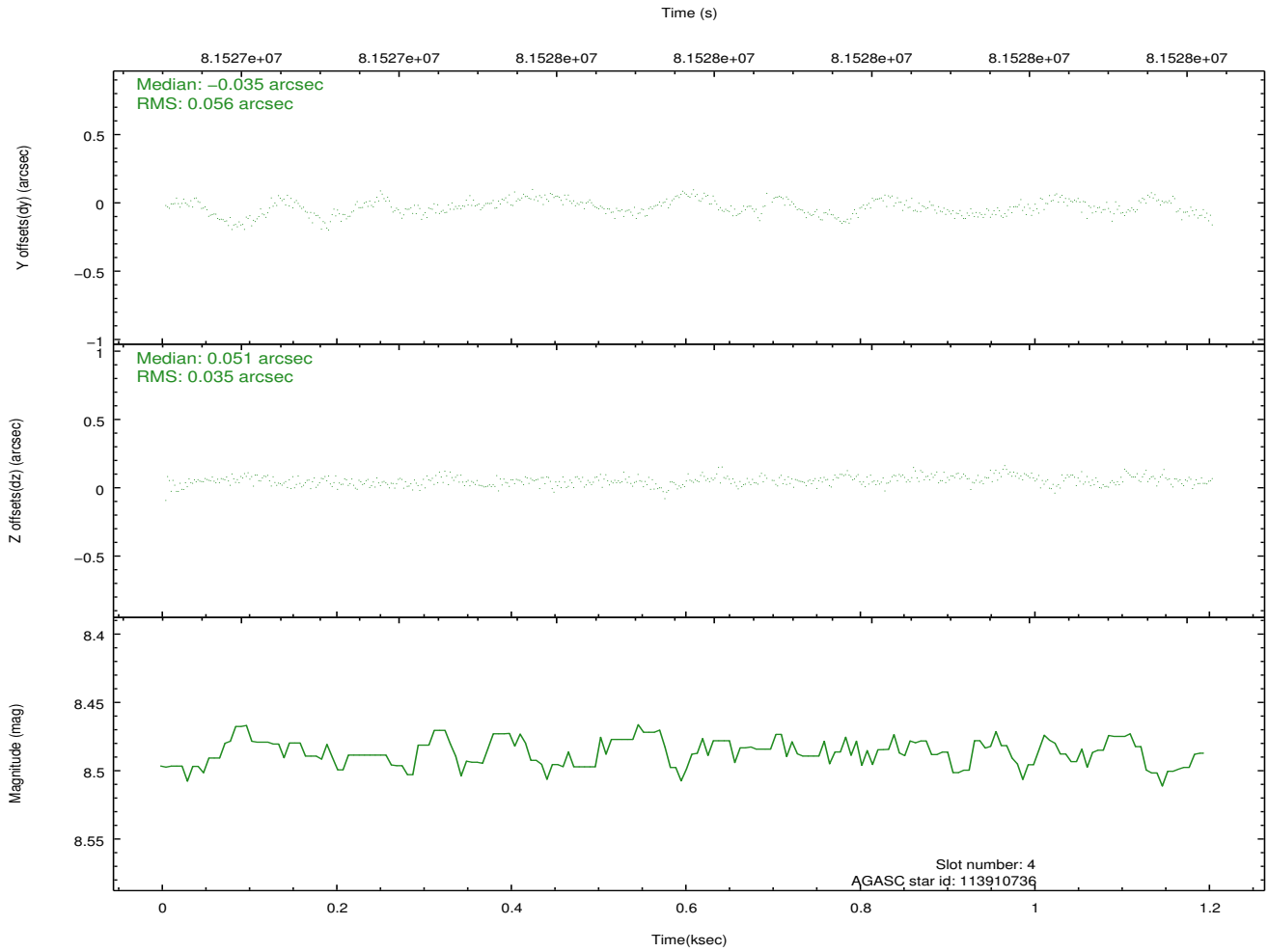
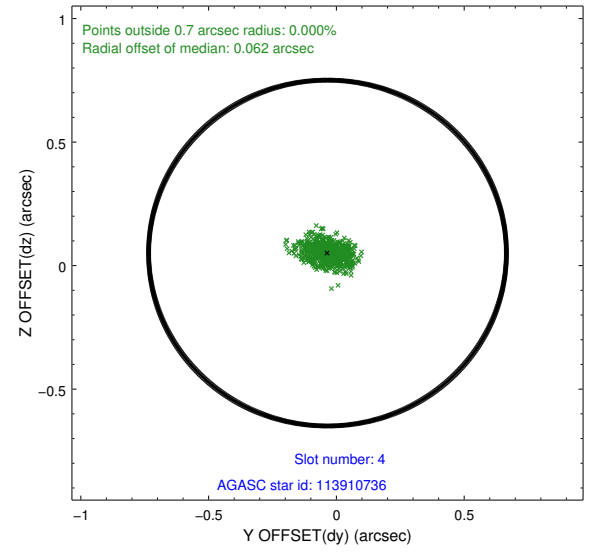
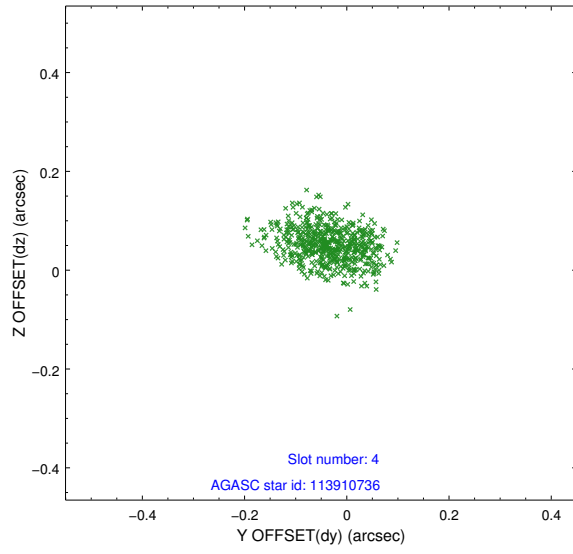
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	291	-0.033	0.014	0.006	0.010	0.000000	0.000000	-754.09	-1727.37
1	FID	ACIS-S-4	7.21	291	-0.026	0.012	0.005	0.009	0.000000	0.000000	2156.67	175.34
2	FID	ACIS-S-5	7.23	291	0.028	-0.017	0.006	0.012	0.000000	0.000000	-1799.66	175.34
3	GUIDE	113906688	7.25	584	-0.099	0.272	0.071	0.103	183.194115	11.111362	-2161.36	1957.69
4	GUIDE	113910736	8.49	584	-0.035	0.051	0.071	0.113	181.816666	10.531380	1069.18	-2237.31
5	GUIDE	113908584	8.58	584	-0.350	-0.430	0.086	0.128	182.320674	11.291738	-2018.70	-1195.96
6	GUIDE	113909952	9.86	584	0.251	0.220	0.097	0.158	182.703120	10.082649	1855.90	1199.84
7	GUIDE	113905264	10.18	582	0.232	-0.108	0.107	0.177	182.445692	10.343633	1179.67	86.30

2.4 Star Slots

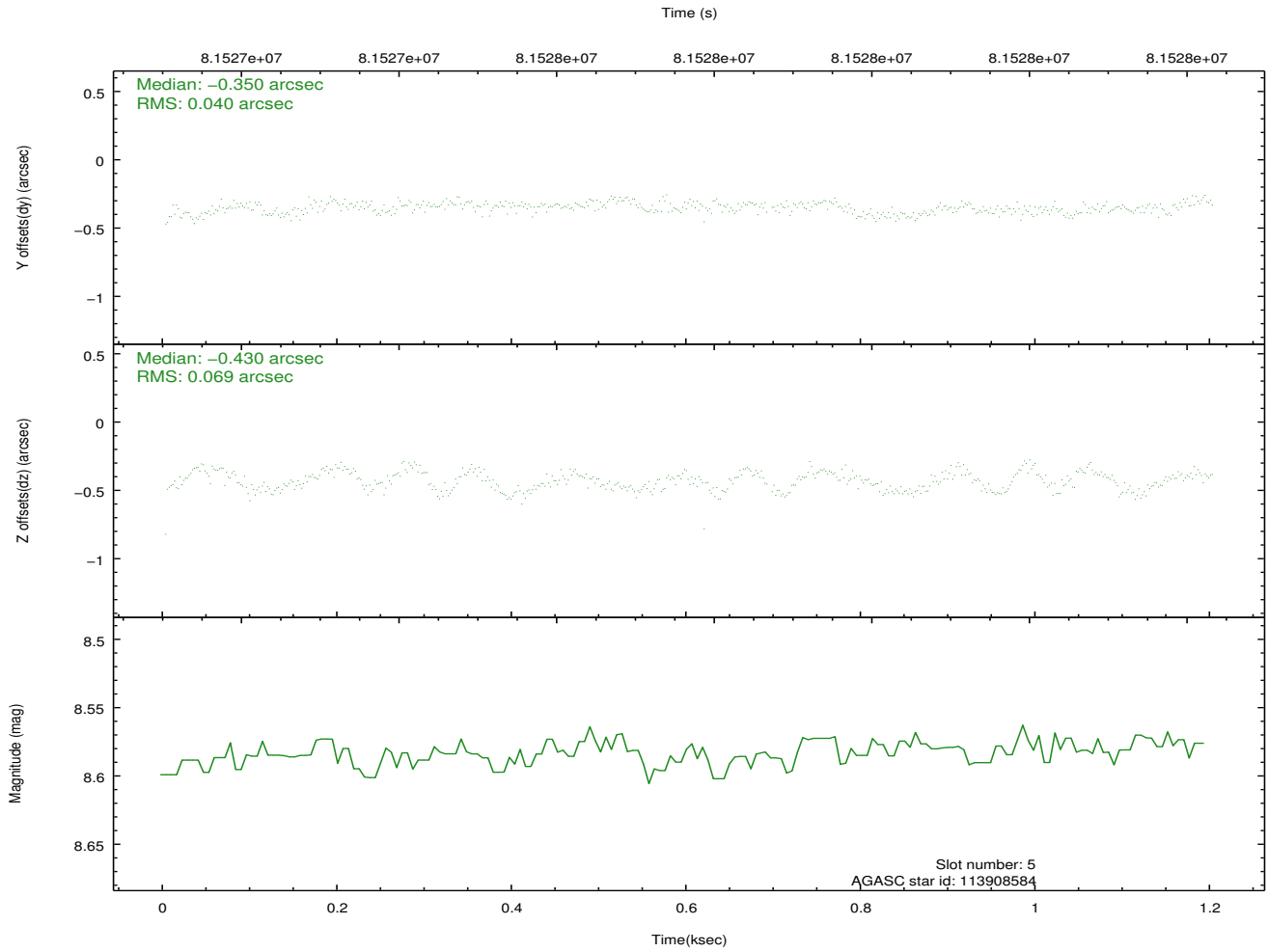
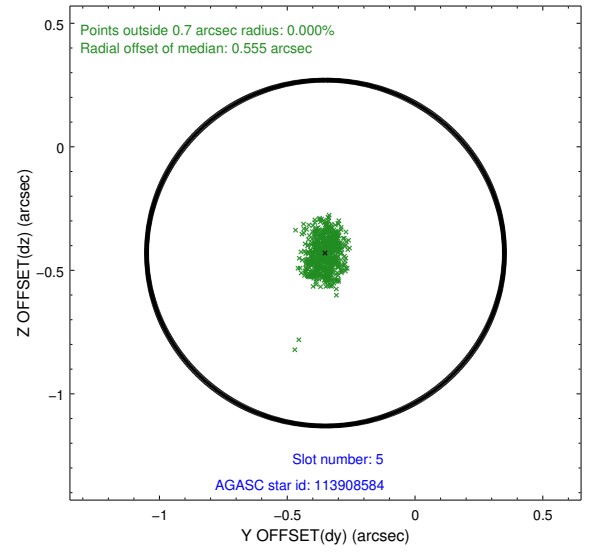
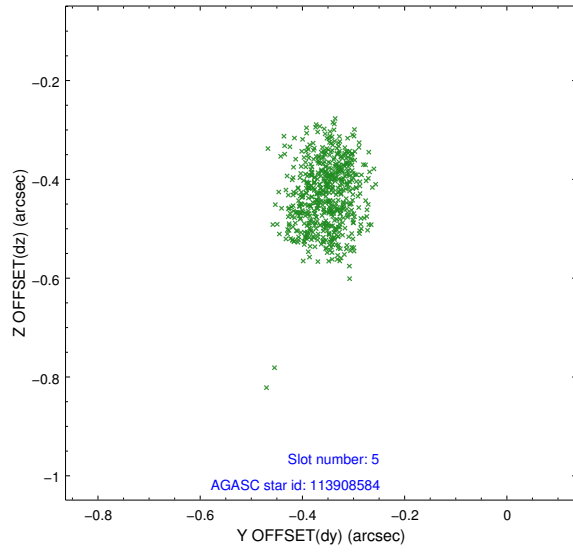
2.4.1 Slot 3



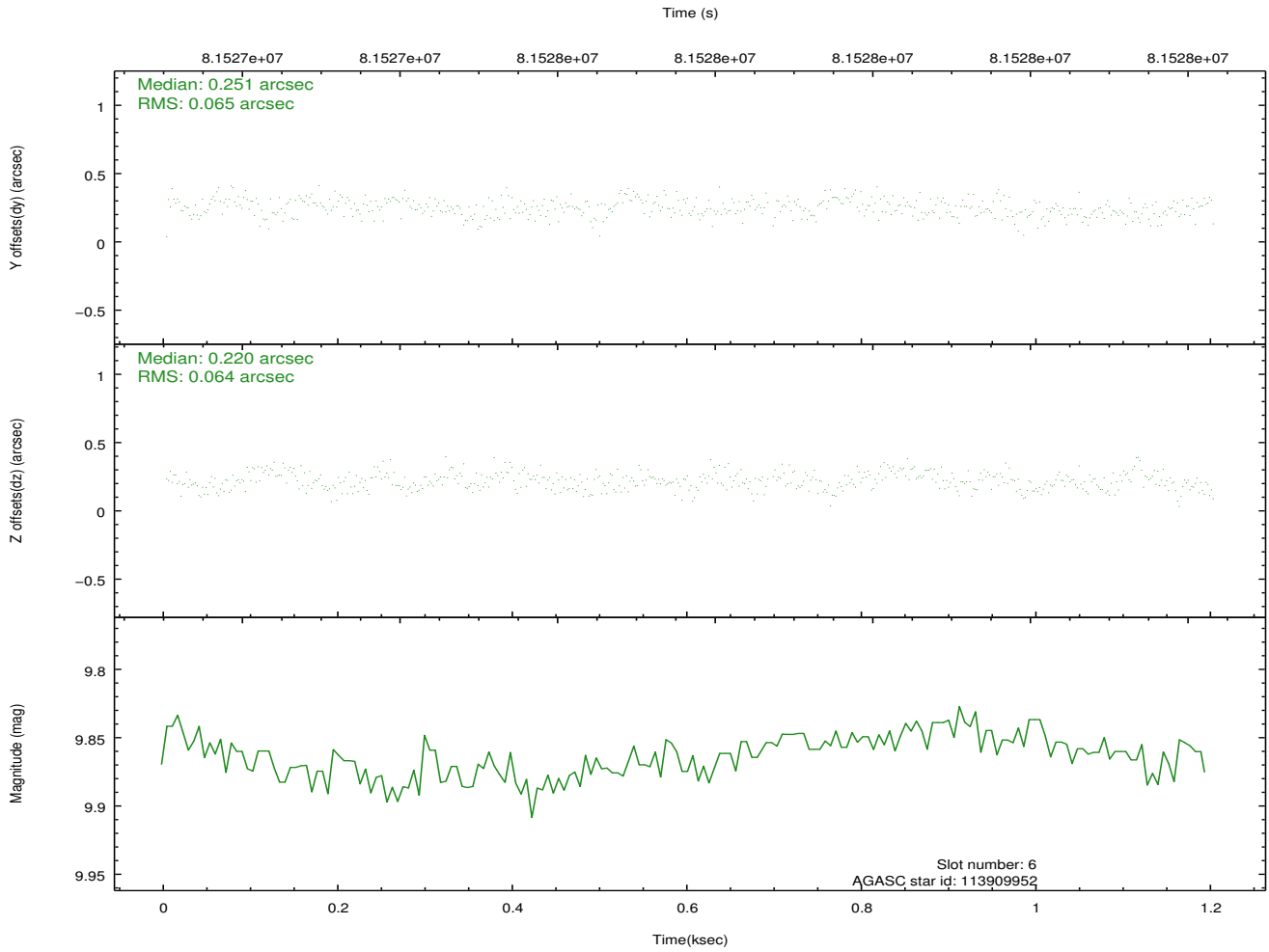
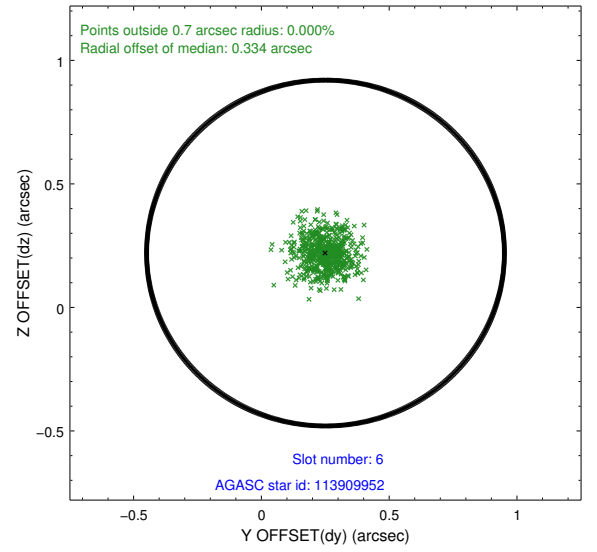
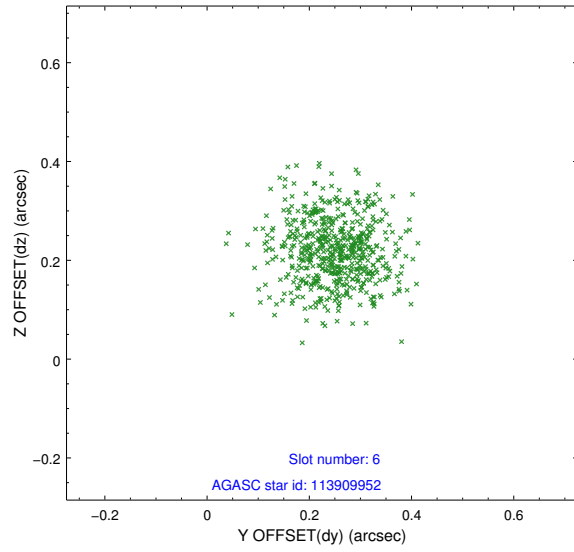
2.4.2 Slot 4



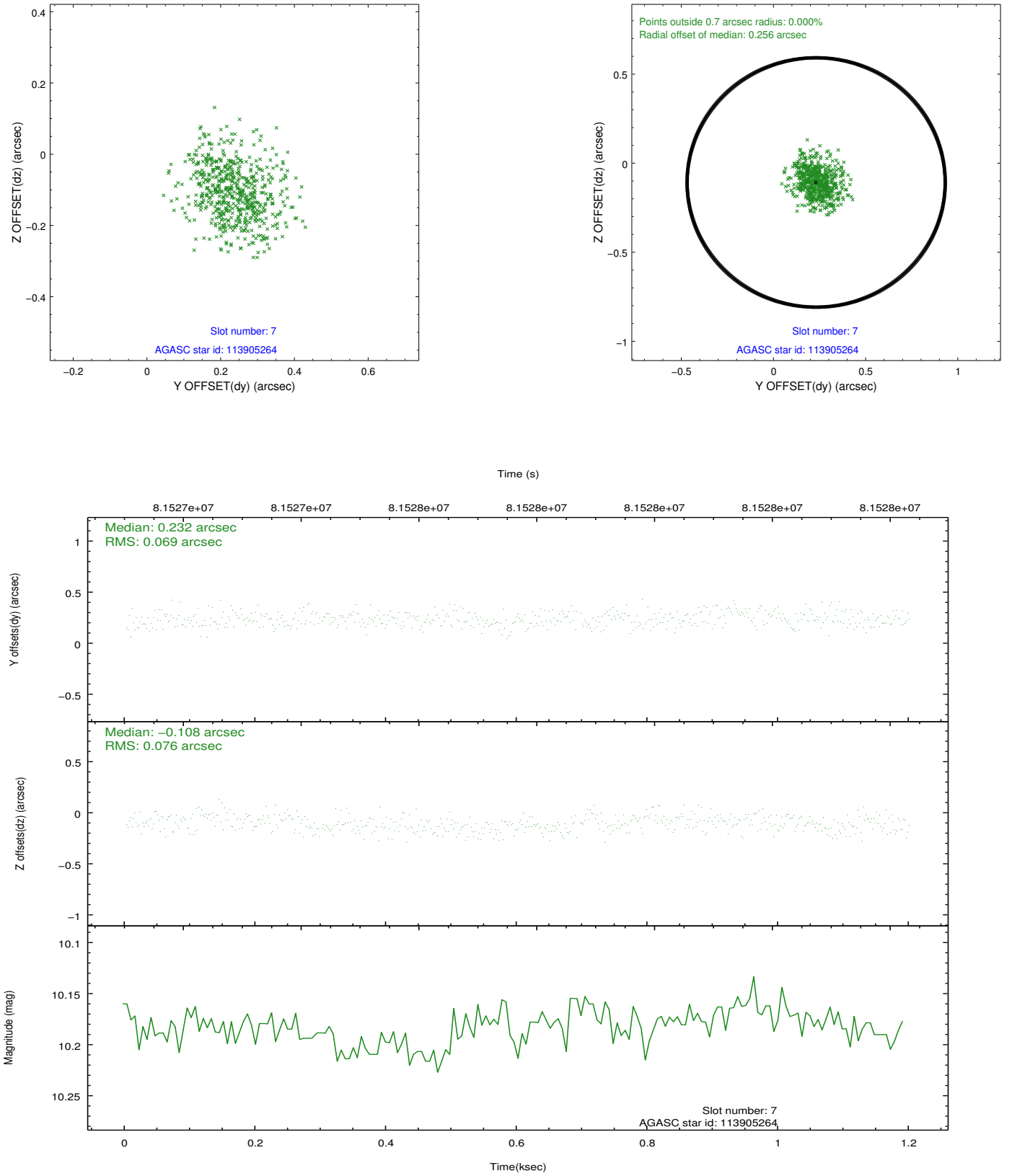
2.4.3 Slot 5



2.4.4 Slot 6

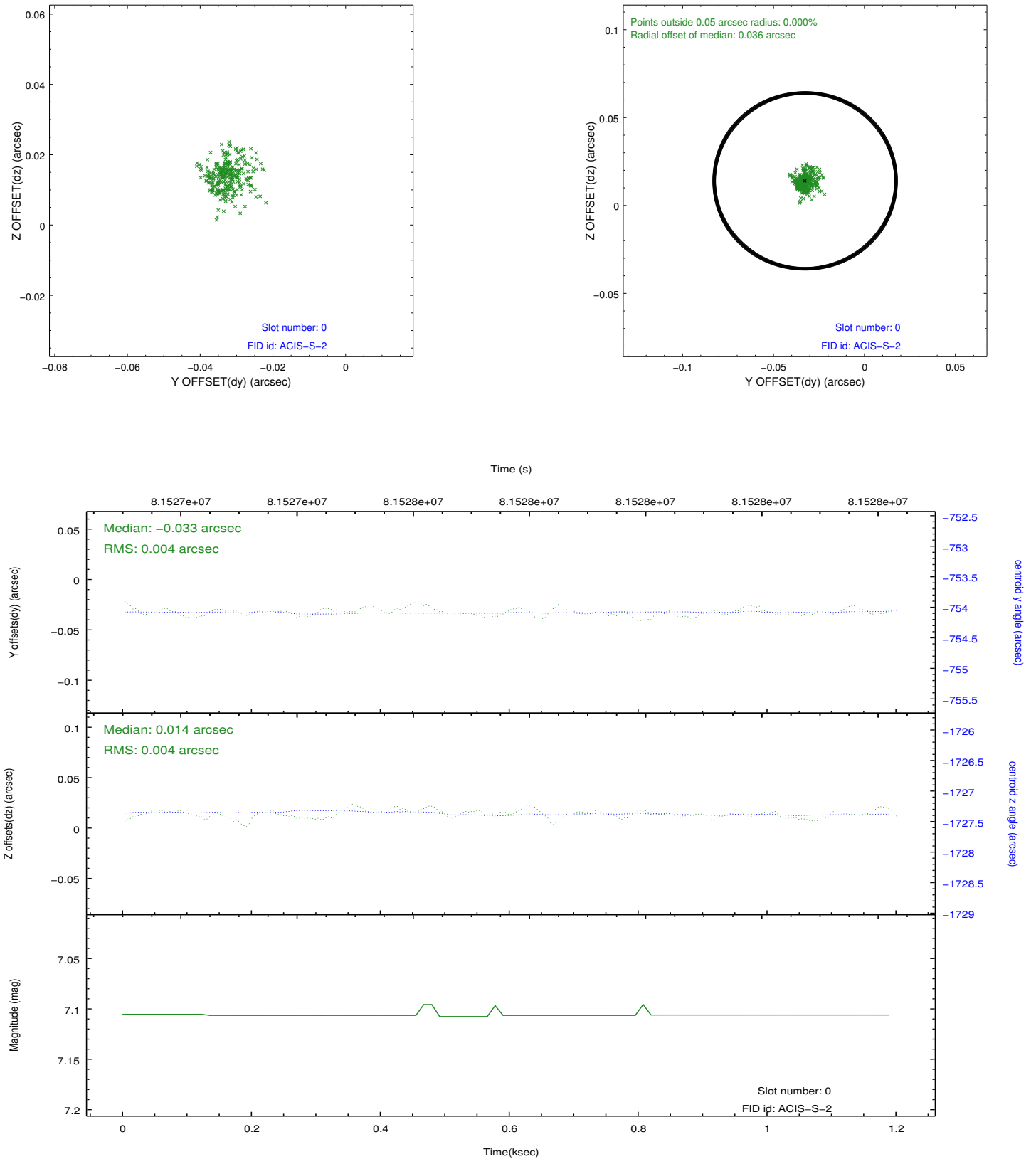


2.4.5 Slot 7

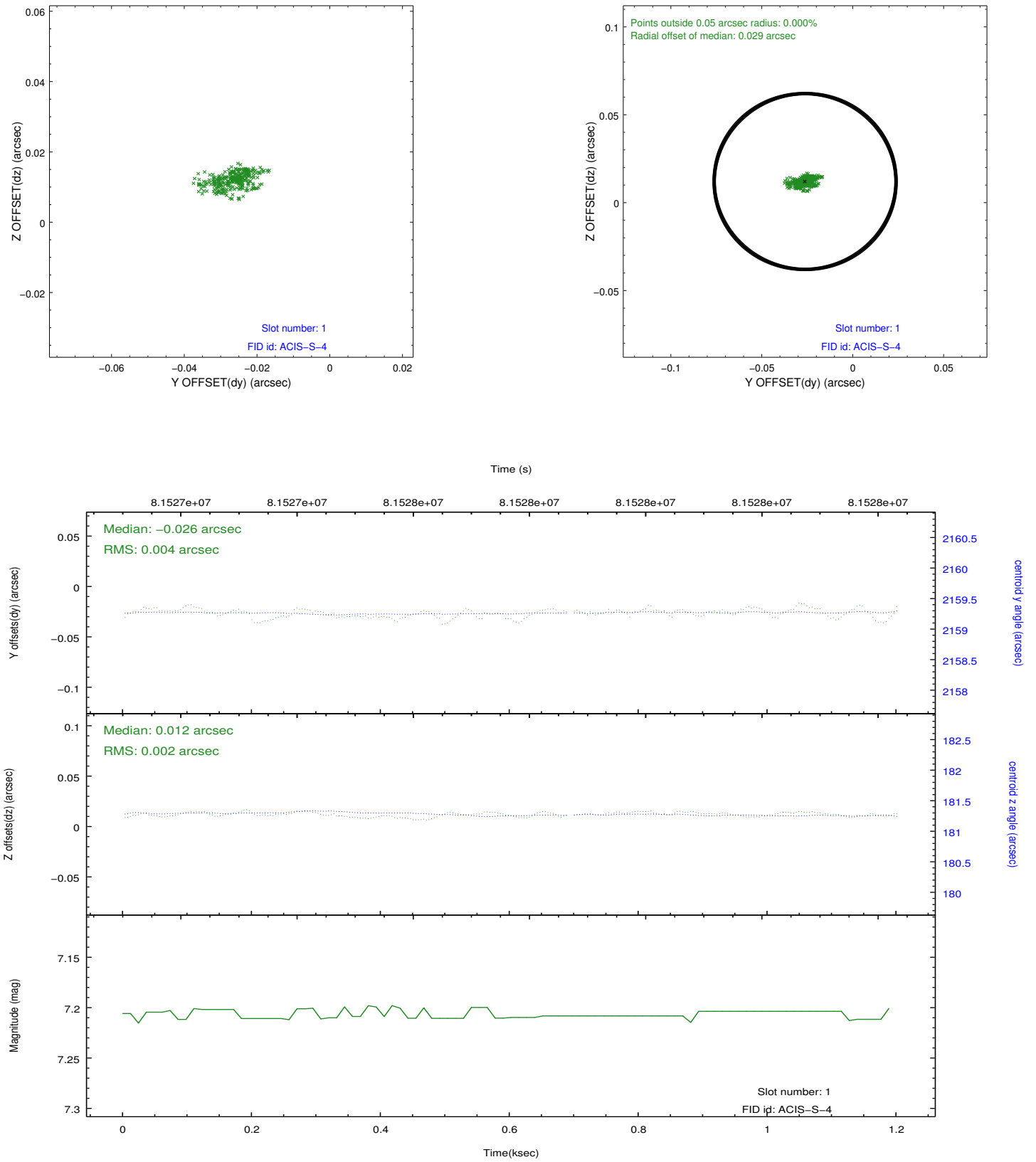


2.5 FID Slots

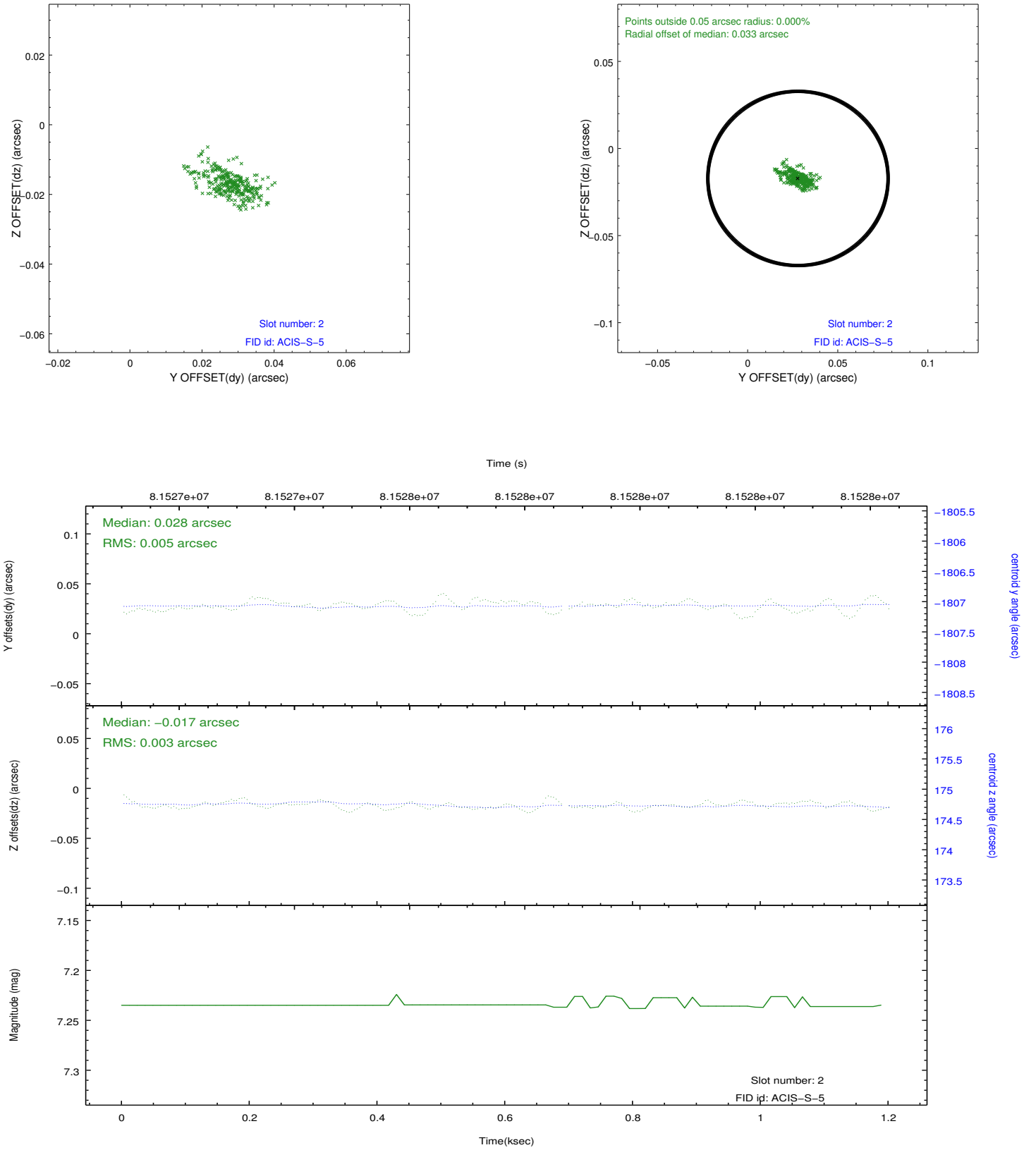
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.196

A.2 Comments

This is an observation of a moving target. Event positions are in the reference frame of Chandra, not of the comet. Users should run a software tool such as `sso_freeze` to reposition the events in the reference frame of the comet, then run normal data analysis tools.