

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4127 - L2 Version 3
Chandra X-Ray Center

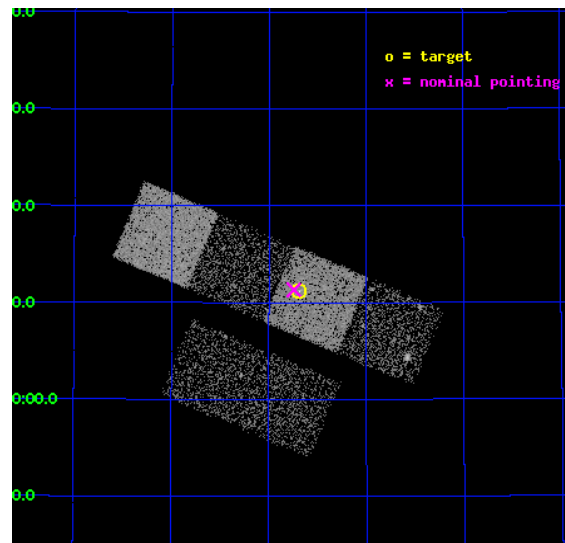
L2 Processing Date : Nov 9 2012

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1 Front

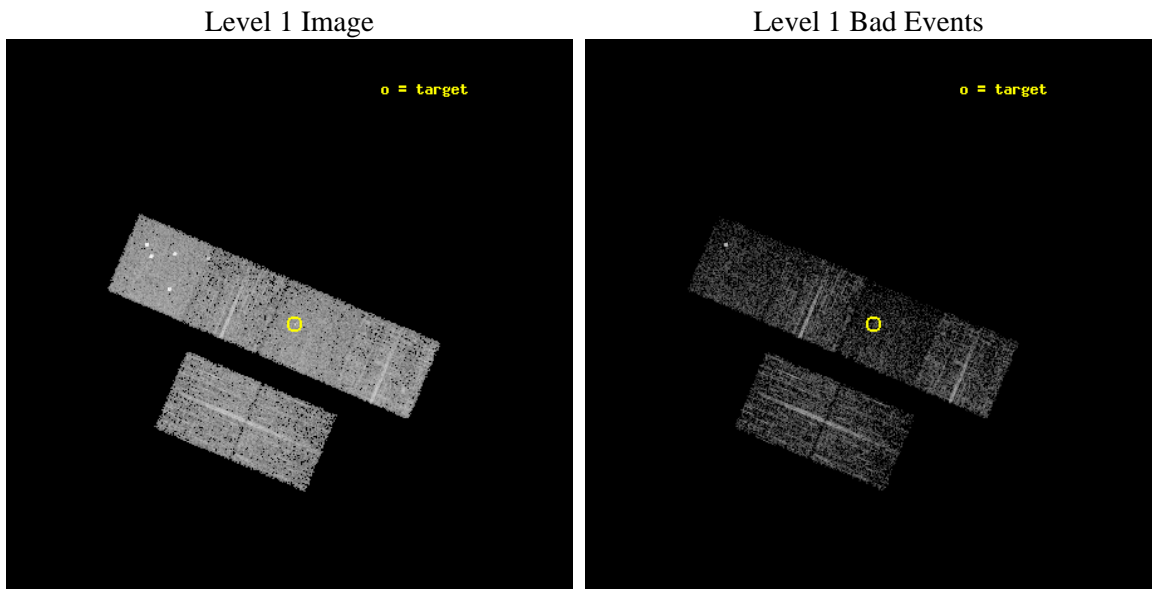
seq_num	700806	Sequence number
obs_id	4127	Observation id
title	WHAT KIND OF JETS DOES NATURE MAKE? X-RAY CHARACTERIZATION OF THE FIRST FLAT SPECTRUM SAMPLE	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	B3 1614+473	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.921667	Observer's specified target RA [deg]
dec_targ	47.186667	Observer's specified target Dec [deg]
ra_nom	243.93572553501	Nominal RA [deg]
dec_nom	47.18884889168	Nominal Dec [deg]
roll_nom	22.9891435872	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3964.79998523	Sum of GTIs [s]
livetime	3914.5953005011	Livetime [s]
ontime2	3964.79998523	Sum of GTIs [s]
ontime3	3964.79998523	Sum of GTIs [s]
ontime5	3964.79998523	Sum of GTIs [s]
ontime6	3964.79998523	Sum of GTIs [s]
ontime7	3964.79998523	Sum of GTIs [s]
ontime8	3964.79998523	Sum of GTIs [s]
l2events	27754	Number of level 2 events



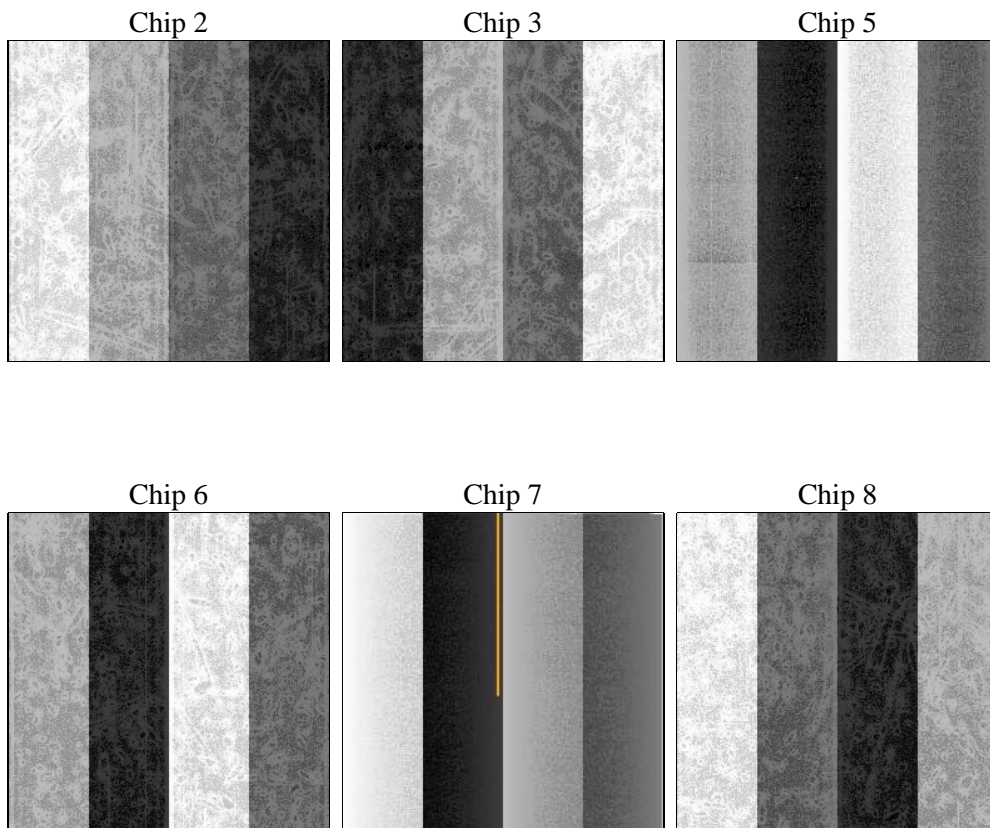
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3964.79998523	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	3964.79998523	Sum of GTIs [s]
date	2012-11-09T07:39:30	Date and time of file creation	ontime3	3964.79998523	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3964.79998523	Sum of GTIs [s]
			ontime6	3964.79998523	Sum of GTIs [s]
			ontime7	3964.79998523	Sum of GTIs [s]
			ontime8	3964.79998523	Sum of GTIs [s]
			l1events	126085	Number of level 1 events

2.1.4 Events

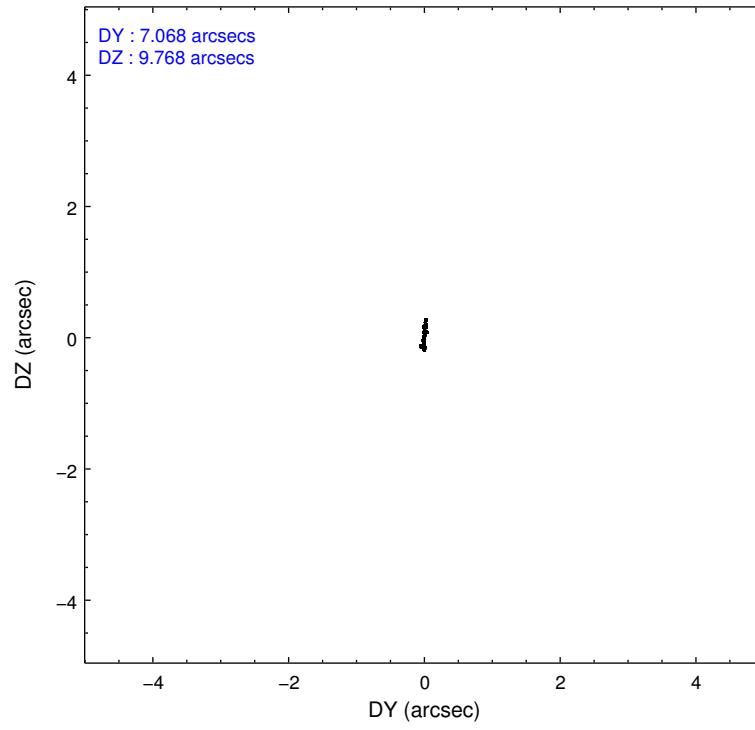
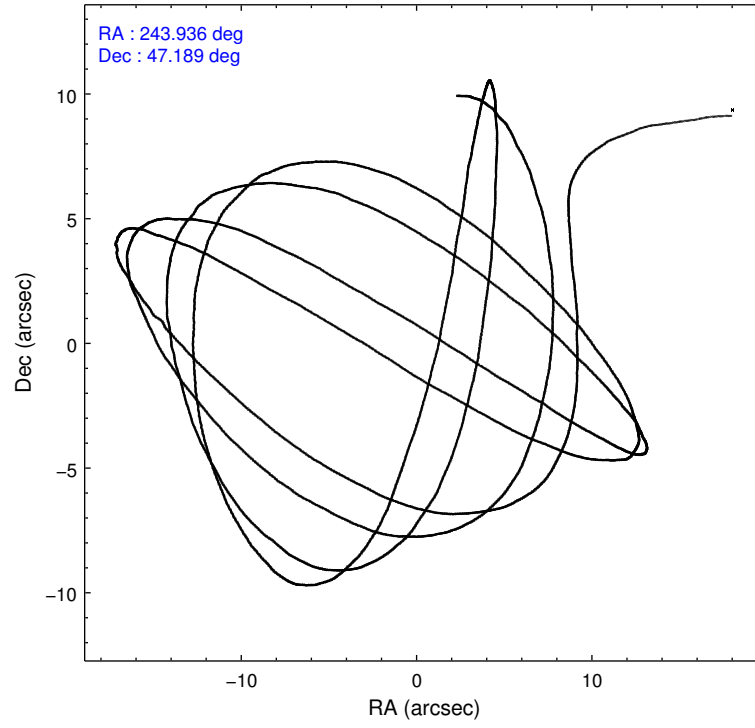
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	20427	17453	27071	19105	18900	23129
rejected events	18500	15642	11390	17103	9468	18154
rejected %	90%	89%	42%	89%	50%	78%

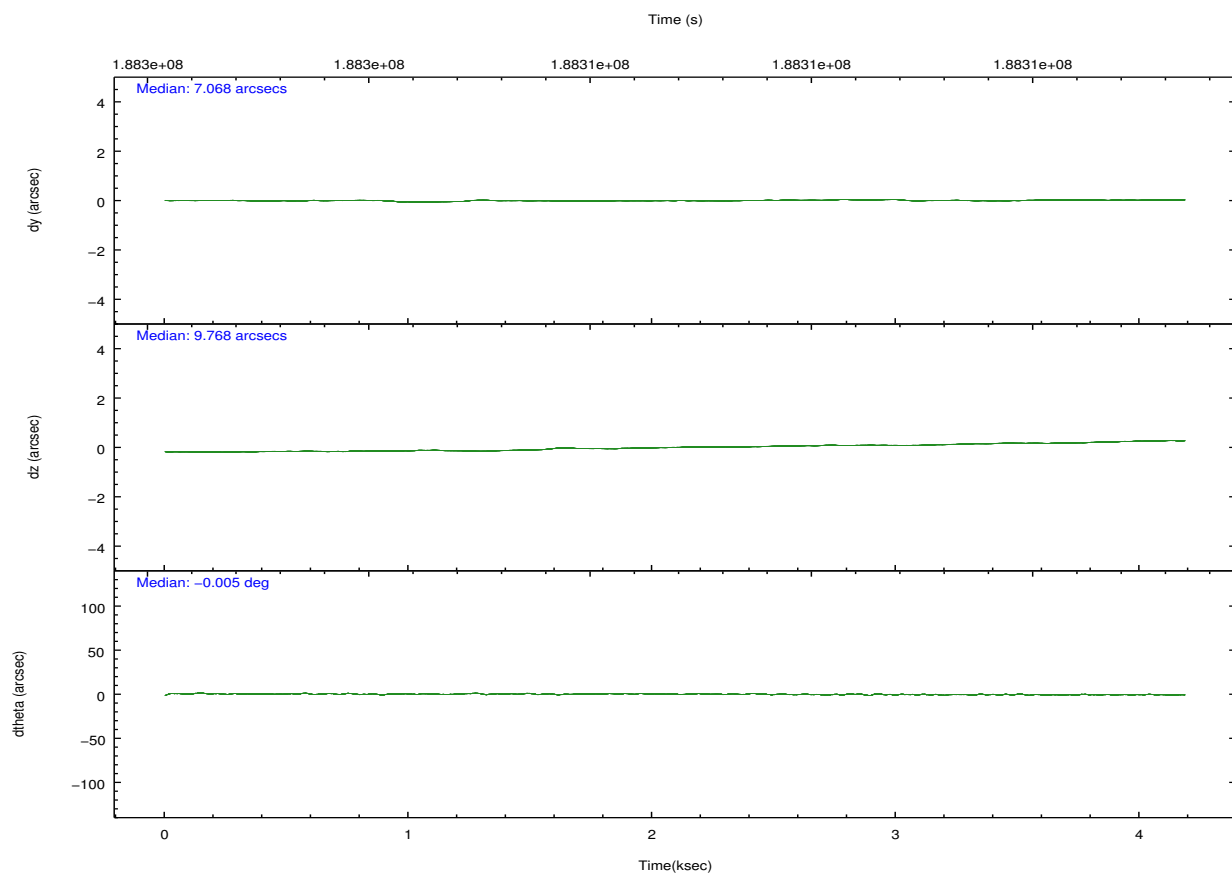
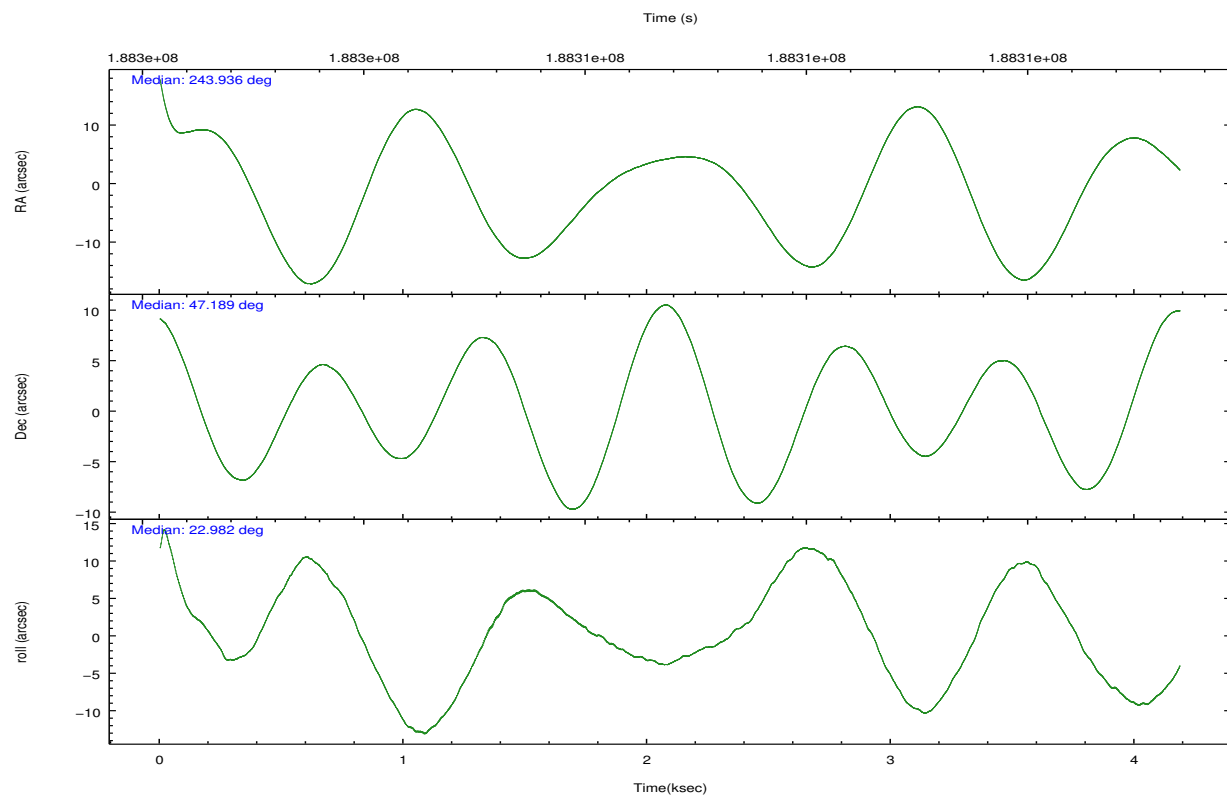
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	749	674	4452	741	1142	1612
	3%	3%	16%	3%	6%	6%
grade 1 events	10	14	415	10	19	16
	0%	0%	1%	0%	0%	0%
grade 2 events	467	366	3844	454	2000	1127
	2%	2%	14%	2%	10%	4%
grade 3 events	190	213	593	227	919	540
	0%	1%	2%	1%	4%	2%
grade 4 events	200	223	657	195	889	485
	0%	1%	2%	1%	4%	2%
grade 5 events	579	638	1971	679	1976	975
	2%	3%	7%	3%	10%	4%
grade 6 events	323	338	6148	393	4499	1214
	1%	1%	22%	2%	23%	5%
grade 7 events	17909	14987	8991	16406	7456	17160
	87%	85%	33%	85%	39%	74%

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	243.911857	243.935725535006	Subarray requested	NONE	NONE
[deg] Pointing Dec	47.166859	47.18884889167967	Alternating exposures requested	N	N
[deg] Pointing Roll	22.849989	22.98914358719965	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	188304478.184000	188303515.60452			
Observation start date	2003-12-20T10:46:54	2003-12-20T10:31:55			
[s] Observation end time (MET)	188308478.184000	188309102.87977			
Observation end date	2003-12-20T11:53:34	2003-12-20T12:05:02			
Read mode	TIMED	TIMED			

2.3 Aspect



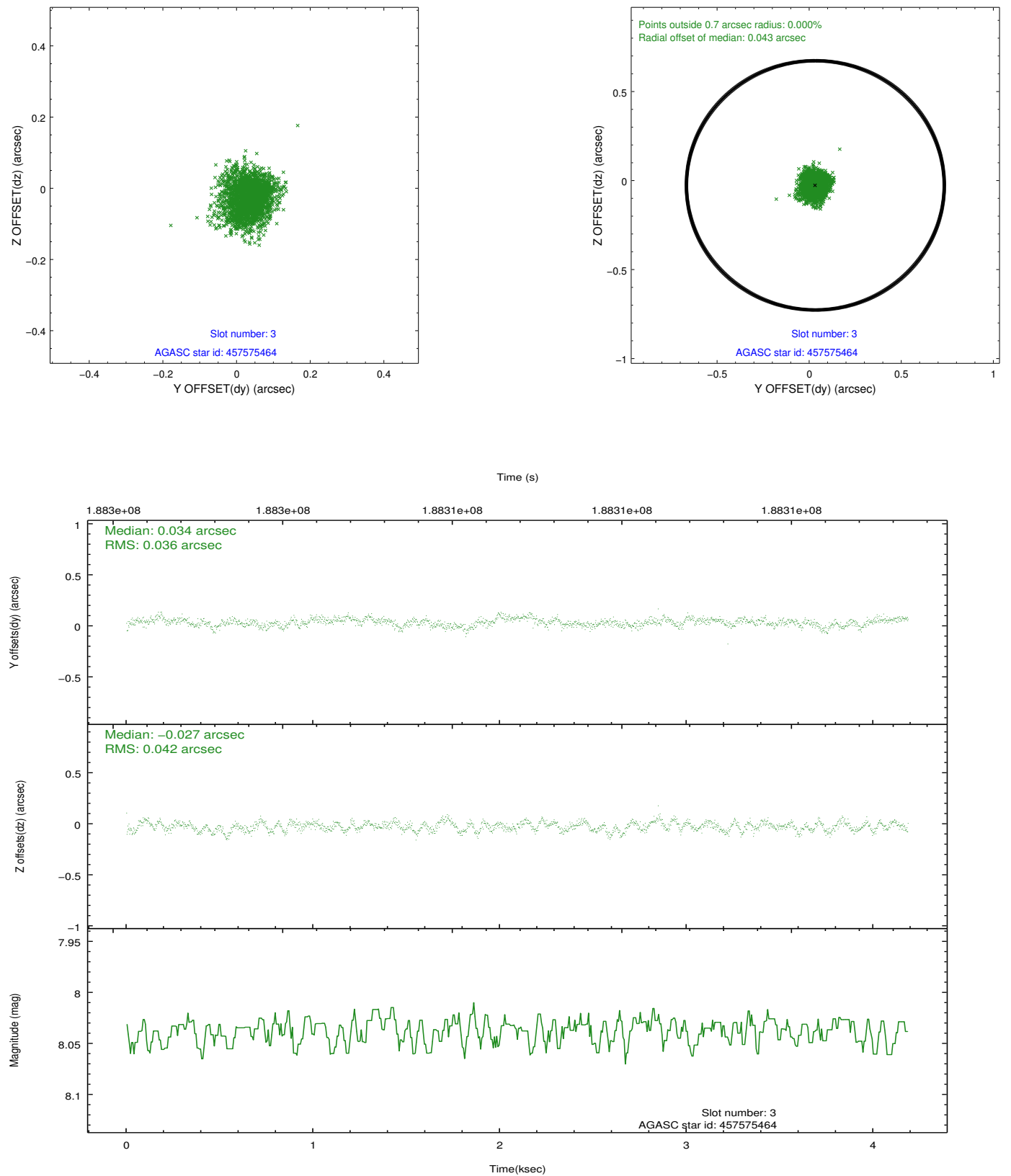


Slot Statistics

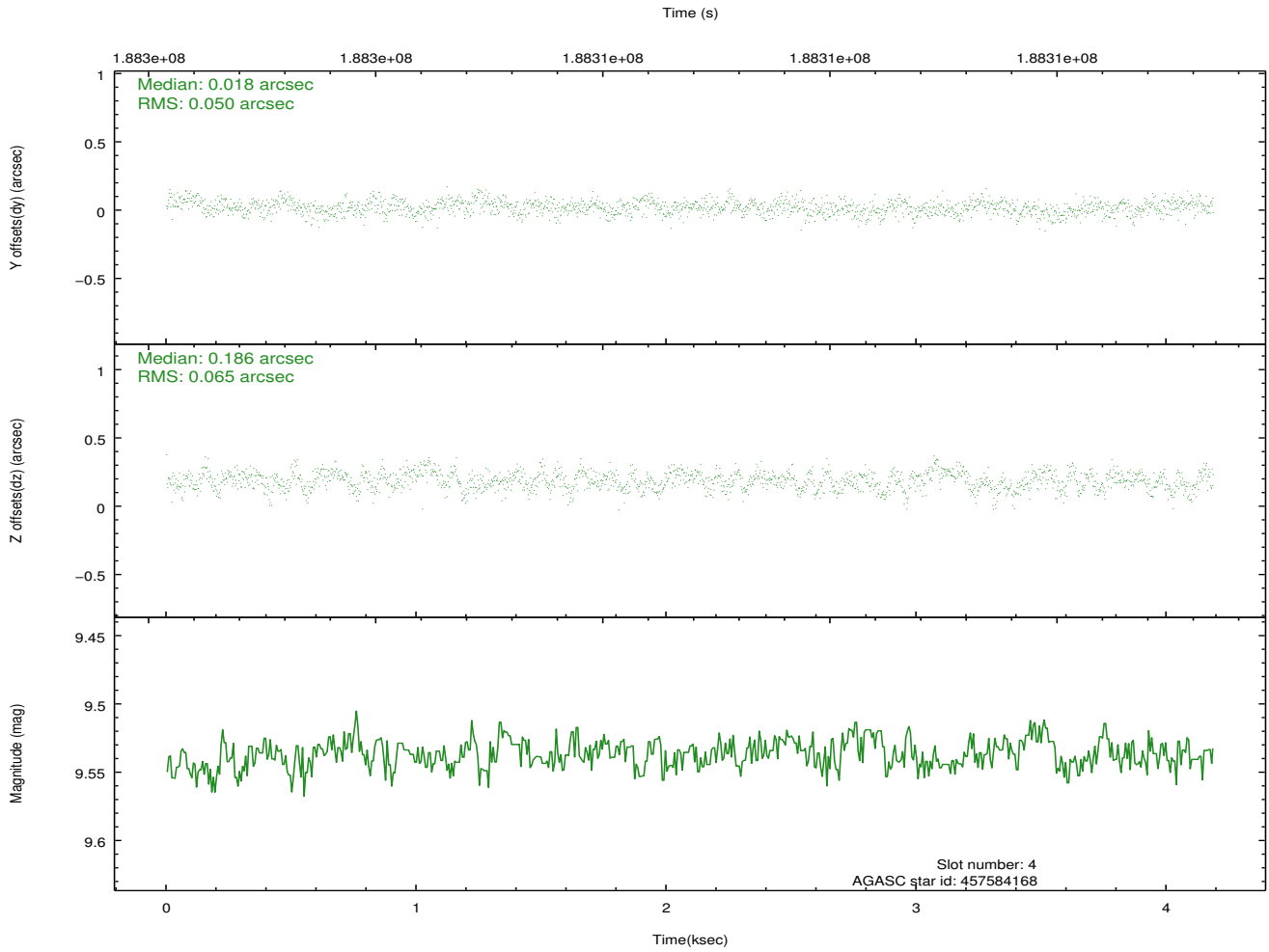
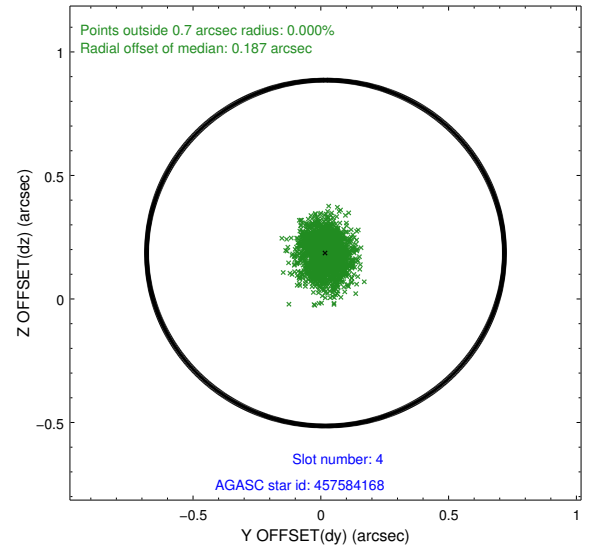
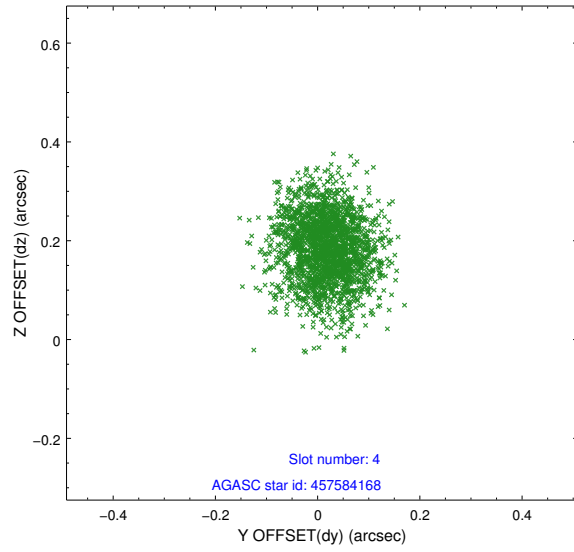
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1021	-0.044	-0.015	0.007	0.012	0.000000	0.000000	-759.84	-1731.03
1	FID	ACIS-S-4	7.20	1021	0.061	0.025	0.006	0.010	0.000000	0.000000	2152.84	176.00
2	FID	ACIS-S-5	7.23	1021	-0.048	-0.001	0.008	0.013	0.000000	0.000000	-1810.81	171.27
3	GUIDE	457575464	8.04	2043	0.034	-0.027	0.058	0.094	243.696515	46.877603	-892.46	-752.91
4	GUIDE	457584168	9.54	2042	0.018	0.186	0.087	0.144	243.512869	46.383959	-2007.04	-2210.20
5	GUIDE	457705240	7.72	2042	0.025	0.104	0.061	0.095	243.799590	47.040088	-432.08	-313.98
6	GUIDE	457706072	9.42	2042	-0.034	-0.094	0.093	0.156	244.344808	47.329769	1201.94	133.23
7	GUIDE	457975936	8.35	2042	-0.050	-0.167	0.079	0.131	242.785165	47.542327	-1990.40	2327.25

2.4 Star Slots

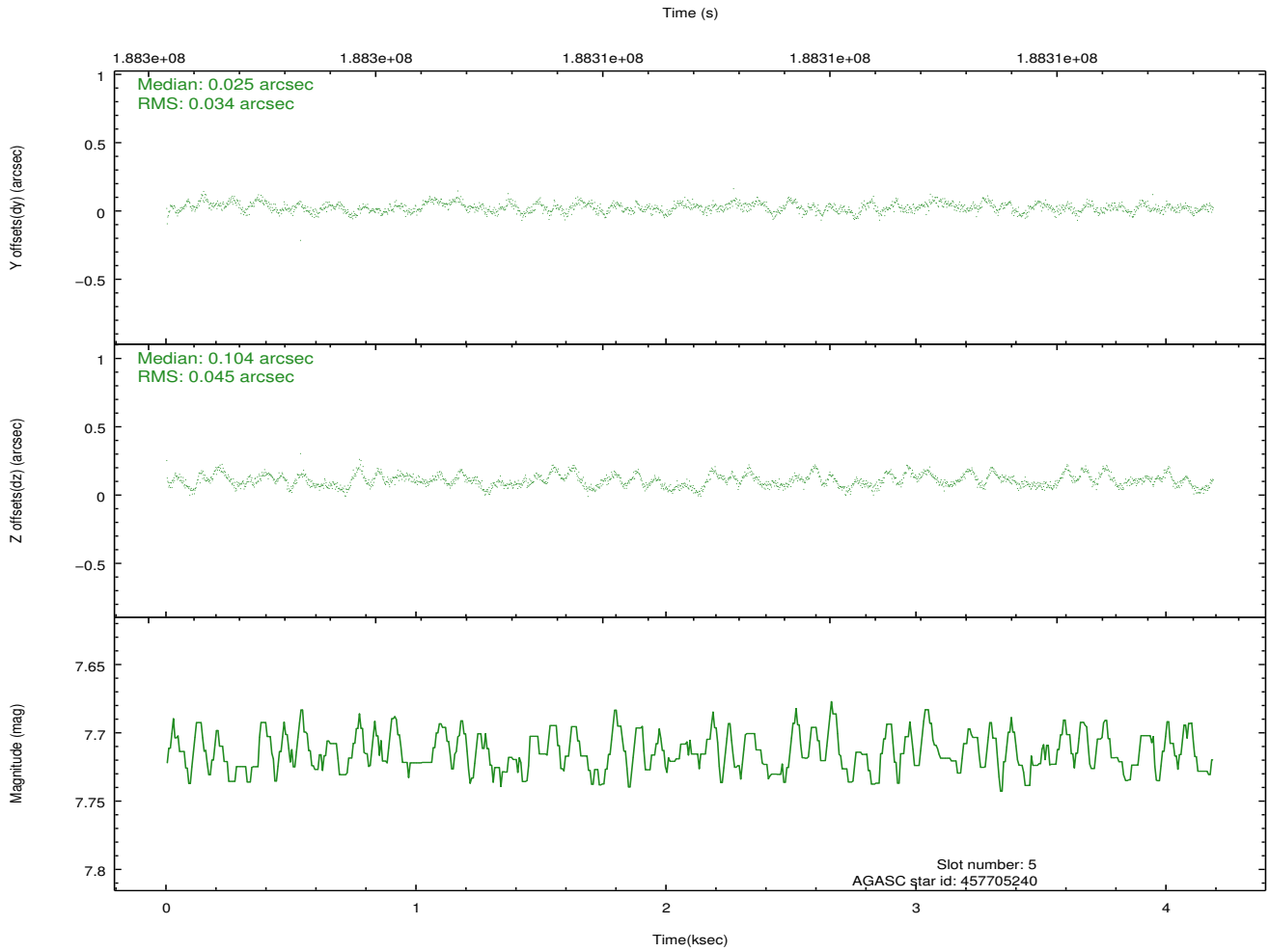
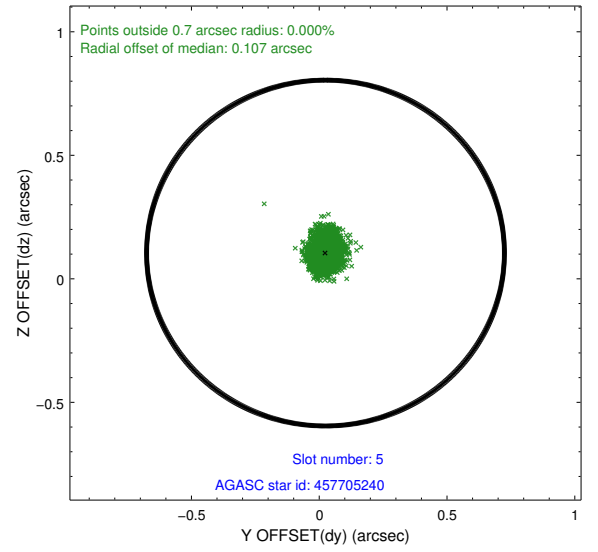
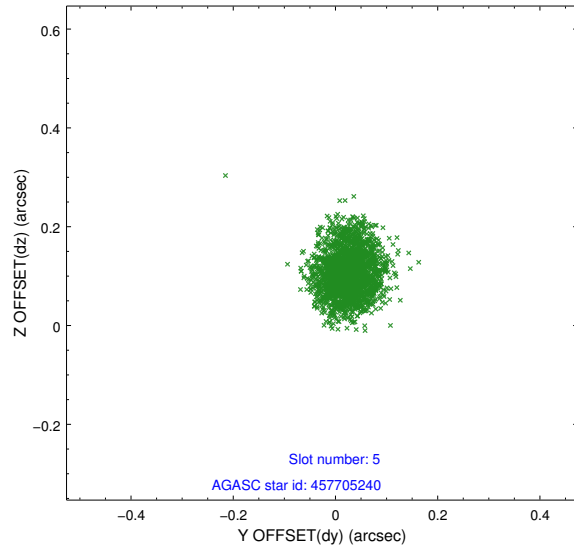
2.4.1 Slot 3



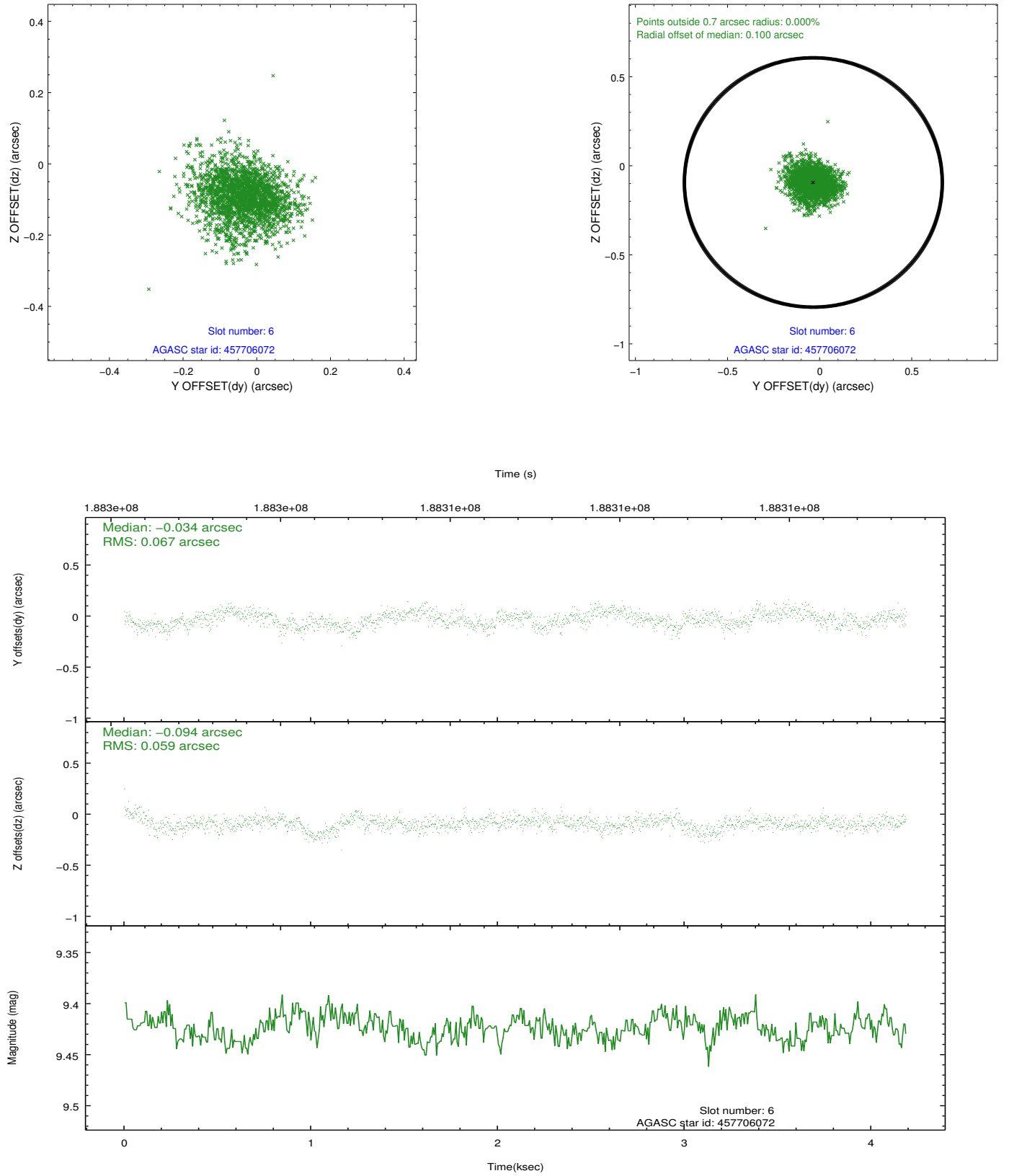
2.4.2 Slot 4



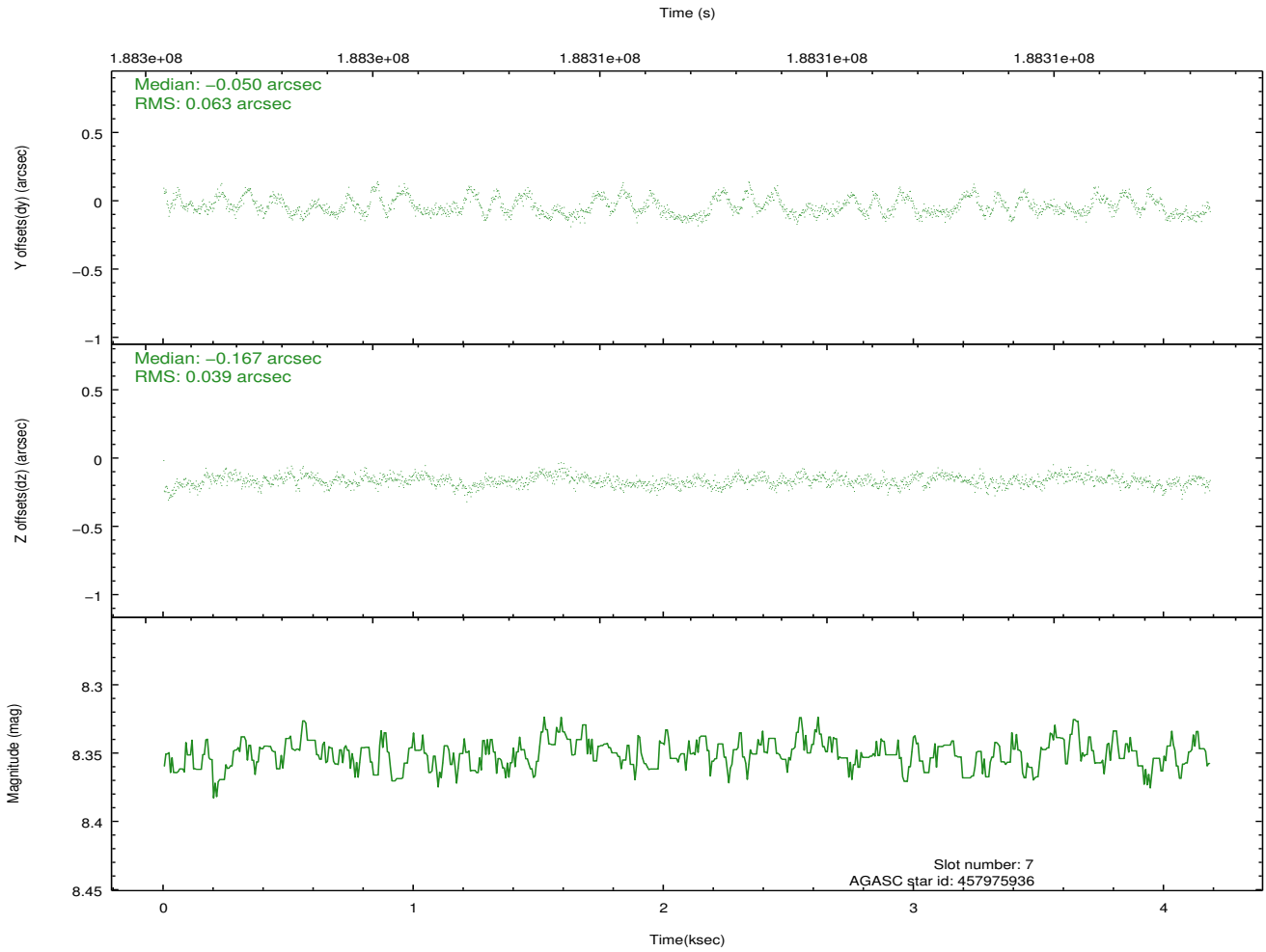
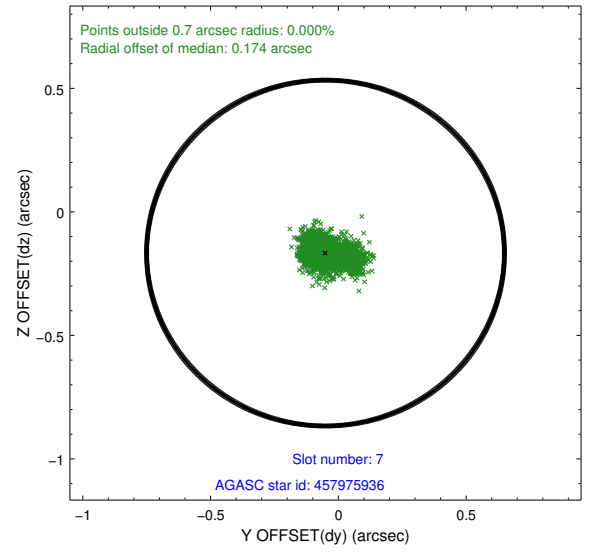
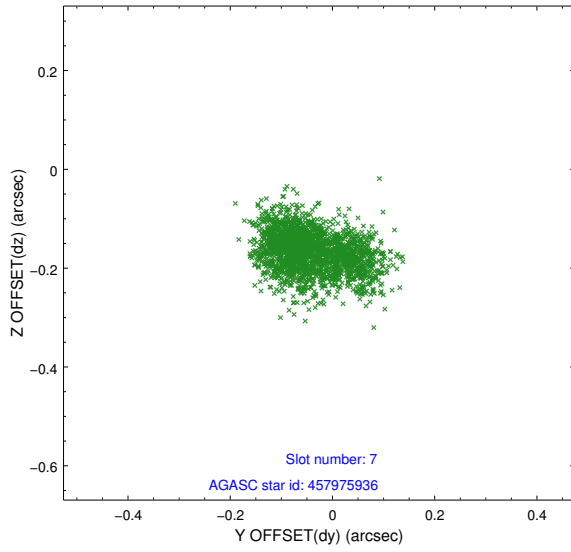
2.4.3 Slot 5



2.4.4 Slot 6

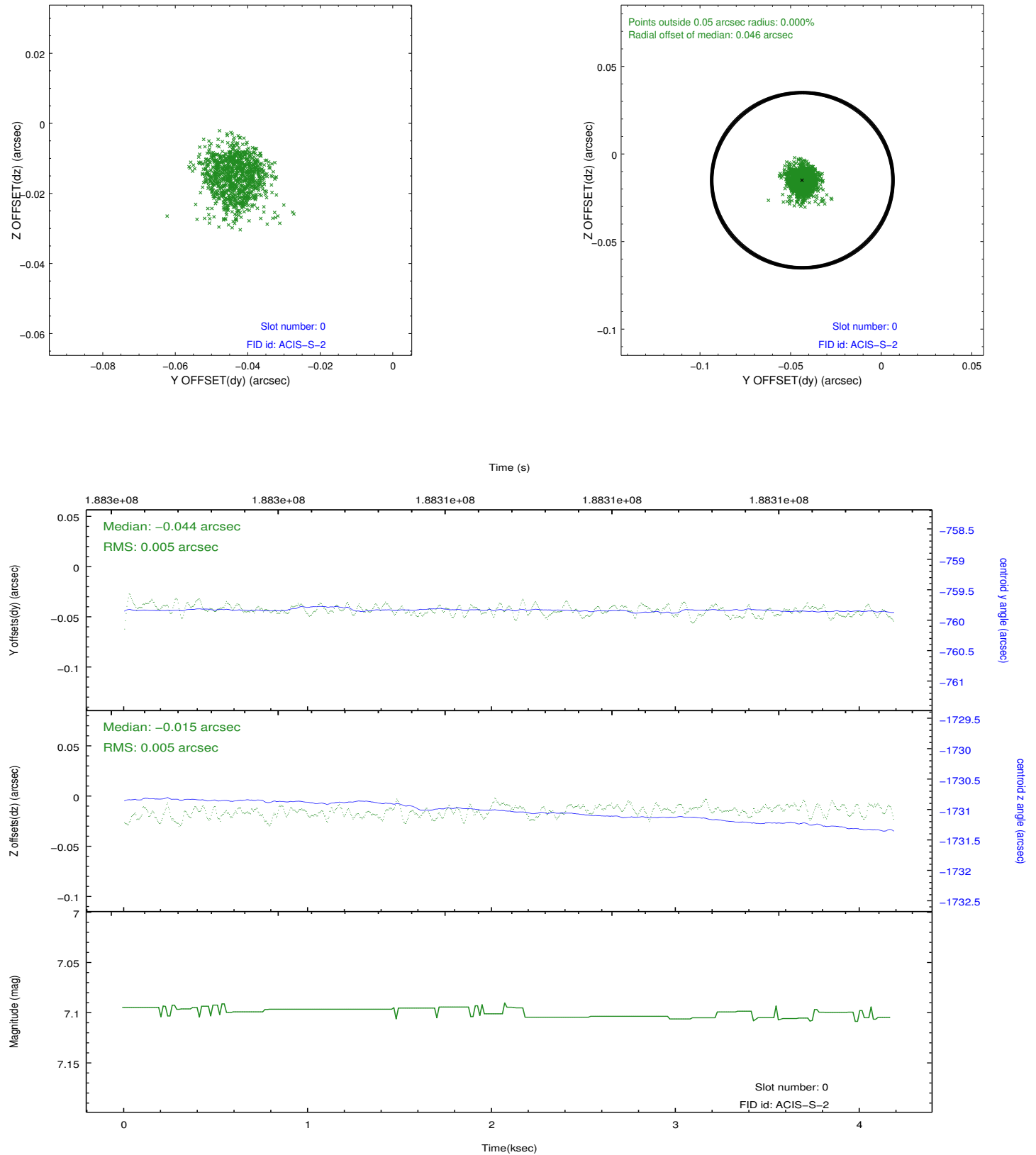


2.4.5 Slot 7

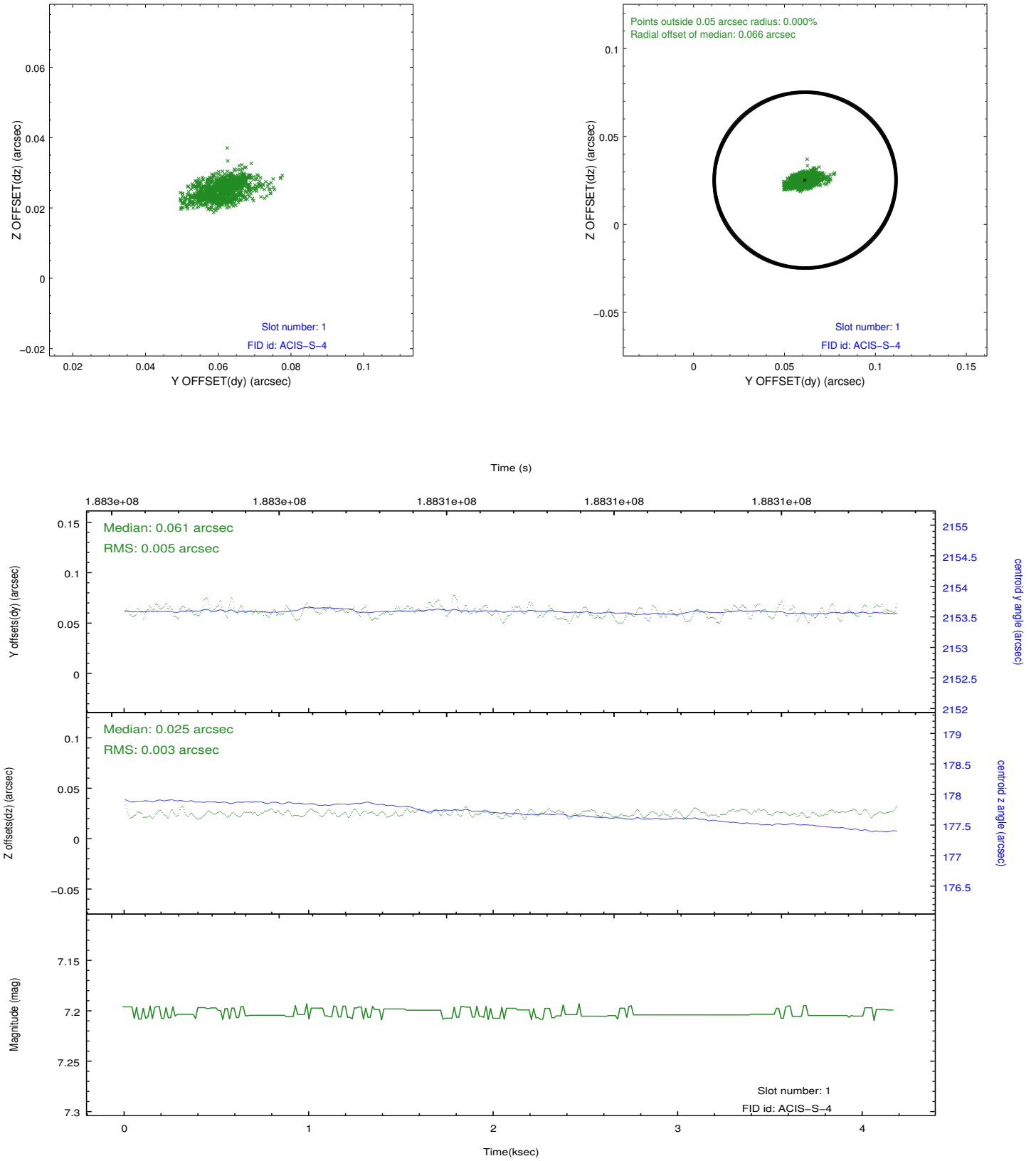


2.5 FID Slots

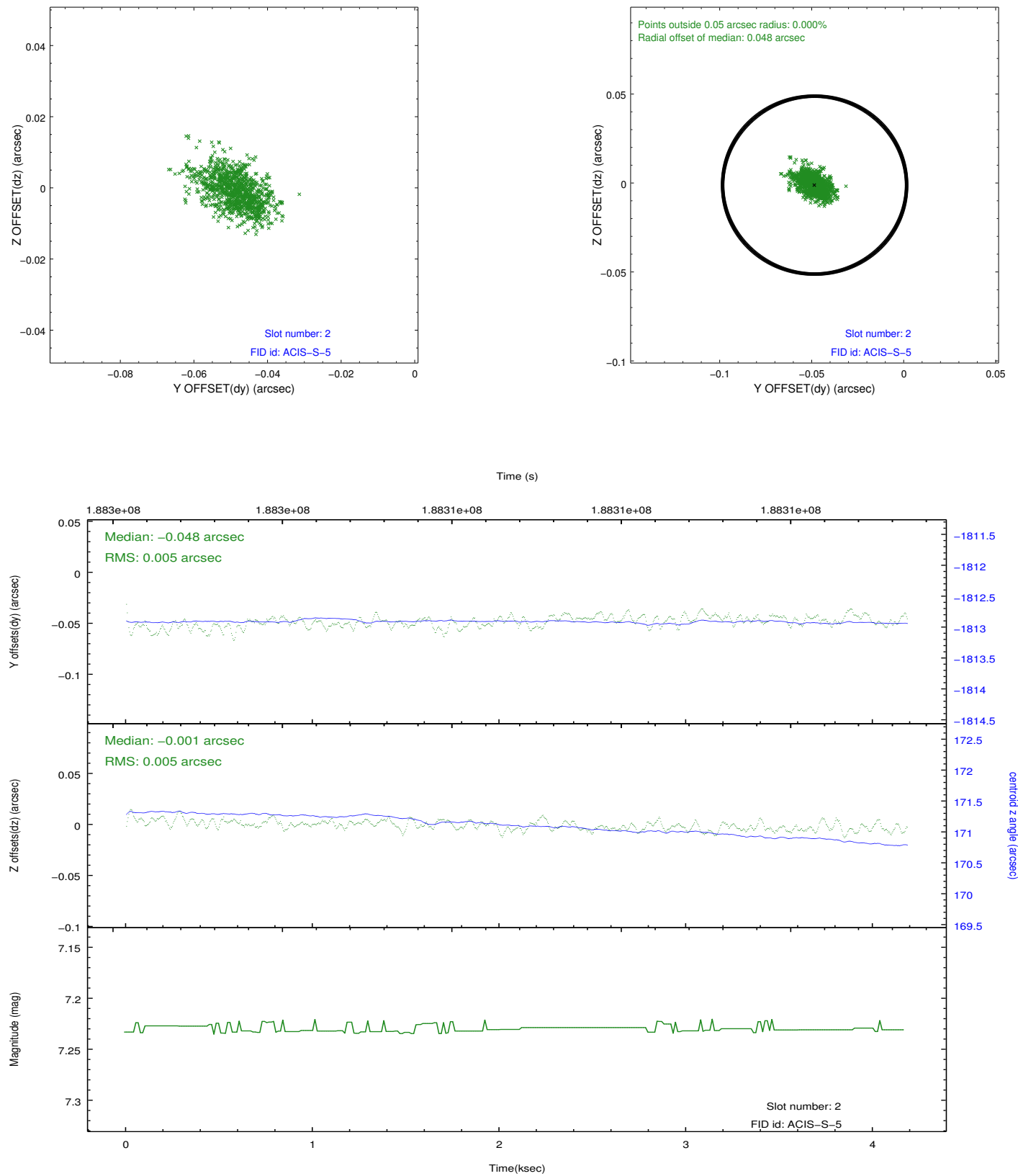
2.5.1 Slot 0



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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.967

A.2 Comments