

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3842 - L2 Version 5
Chandra X-Ray Center

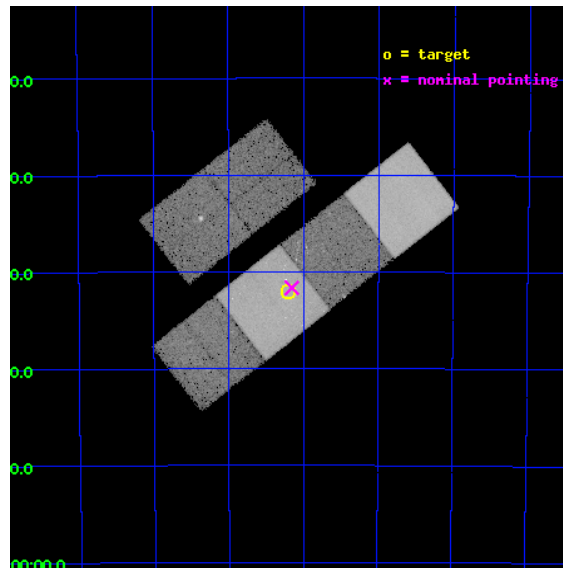
L2 Processing Date : Jan 18 2013

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1 Front

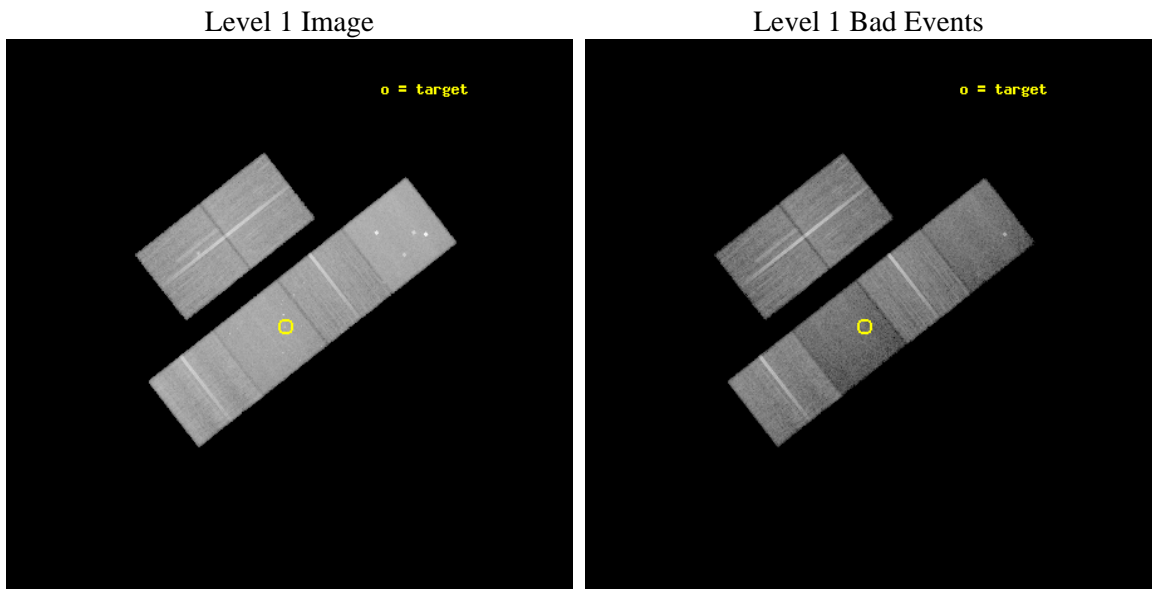
seq_num	500321	Sequence number
obs_id	3842	Observation id
title	THE X-RAY NEBULA OF PSR B1046-58	Proposal title
observer	Dr. Victoria Kaspi	Principal investigator
object	PSR B1046-58	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.050833	Observer's specified target RA [deg]
dec_targ	-58.534944	Observer's specified target Dec [deg]
ra_nom	162.03850945646	Nominal RA [deg]
dec_nom	-58.527729108353	Nominal Dec [deg]
roll_nom	141.88144807987	Nominal Roll [deg]
revision	5	Processing version of data
ontime	36611.199863613	Sum of GTIs [s]
livetime	36147.606806322	Livetime [s]
ontime2	36607.958903342	Sum of GTIs [s]
ontime3	36604.717943043	Sum of GTIs [s]
ontime5	36611.199863613	Sum of GTIs [s]
ontime6	36611.199863613	Sum of GTIs [s]
ontime7	36611.199863613	Sum of GTIs [s]
ontime8	36611.199863613	Sum of GTIs [s]
l2events	338218	Number of level 2 events



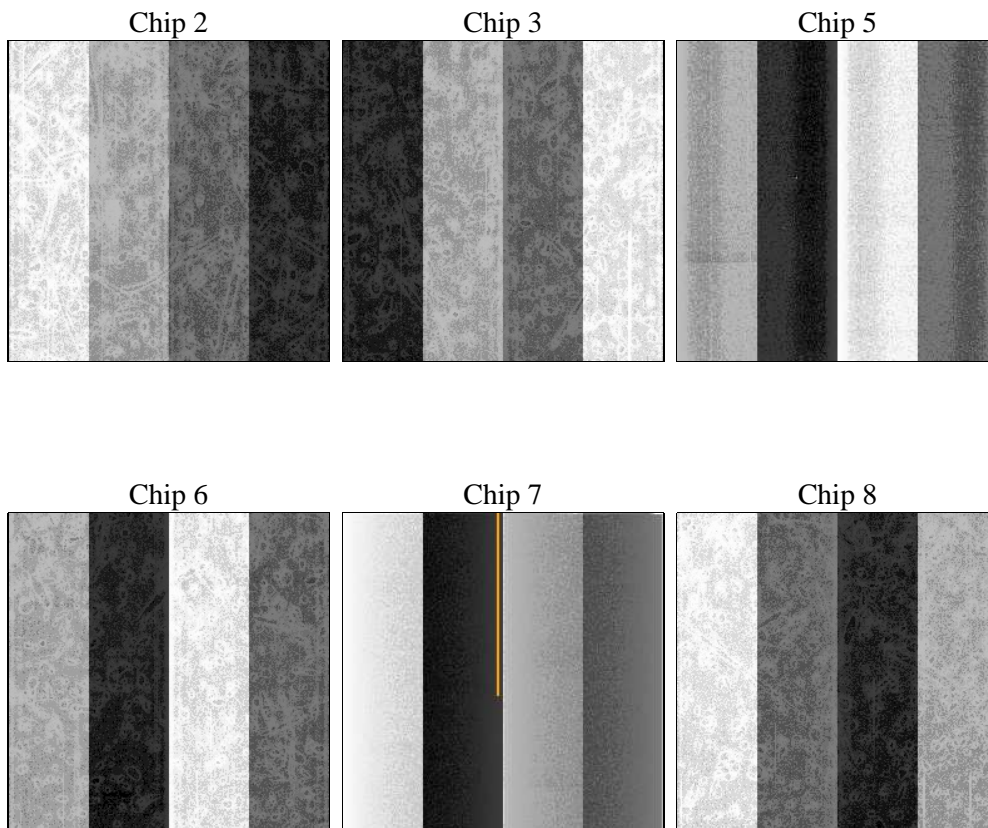
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36485.158000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	36611.199863613	Sum of GTIs [s]
caldbver	4.5.5	 	ontime2	36607.958903342	Sum of GTIs [s]
date	2013-01-18T20:49:34	Date and time of file creation	ontime3	36604.717943043	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	36611.199863613	Sum of GTIs [s]
			ontime6	36611.199863613	Sum of GTIs [s]
			ontime7	36611.199863613	Sum of GTIs [s]
			ontime8	36611.199863613	Sum of GTIs [s]
			l1events	1263062	Number of level 1 events

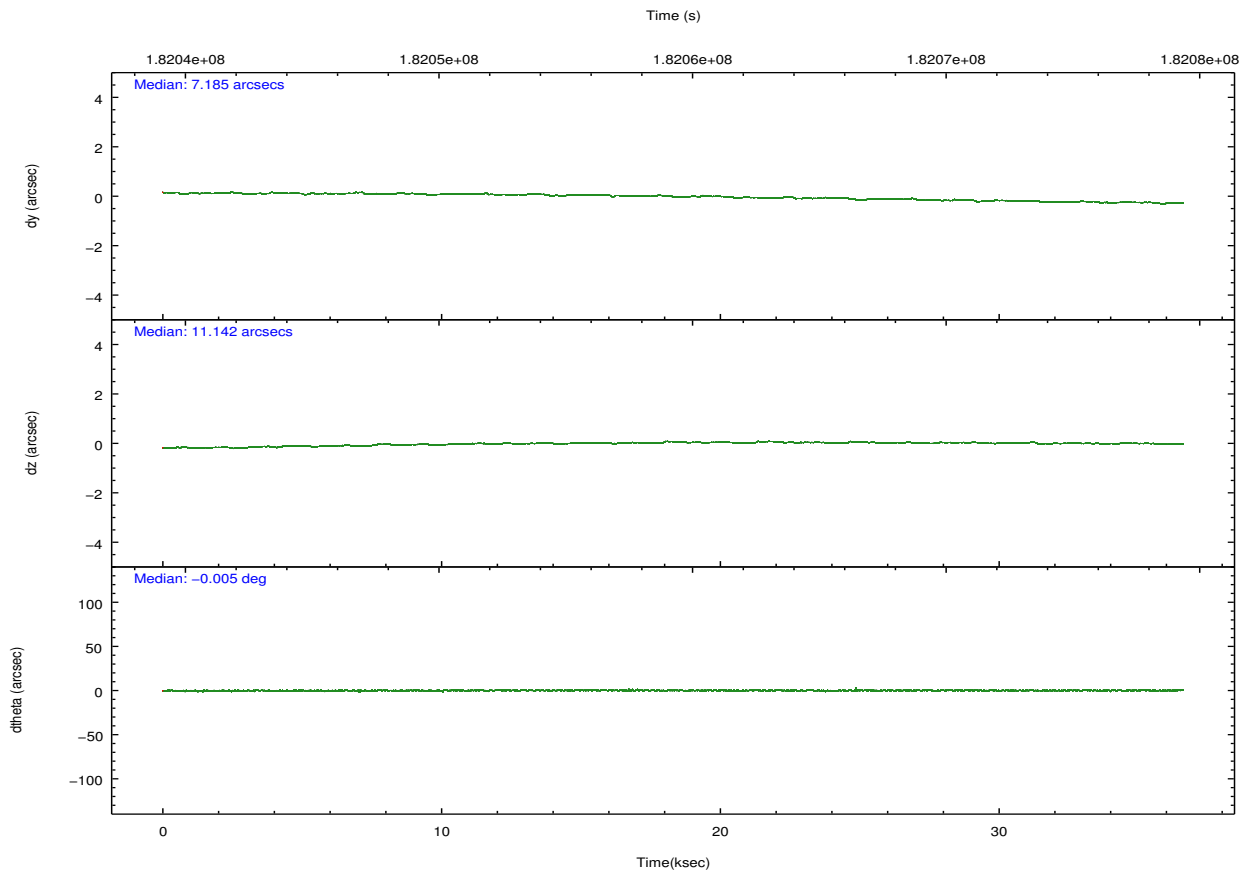
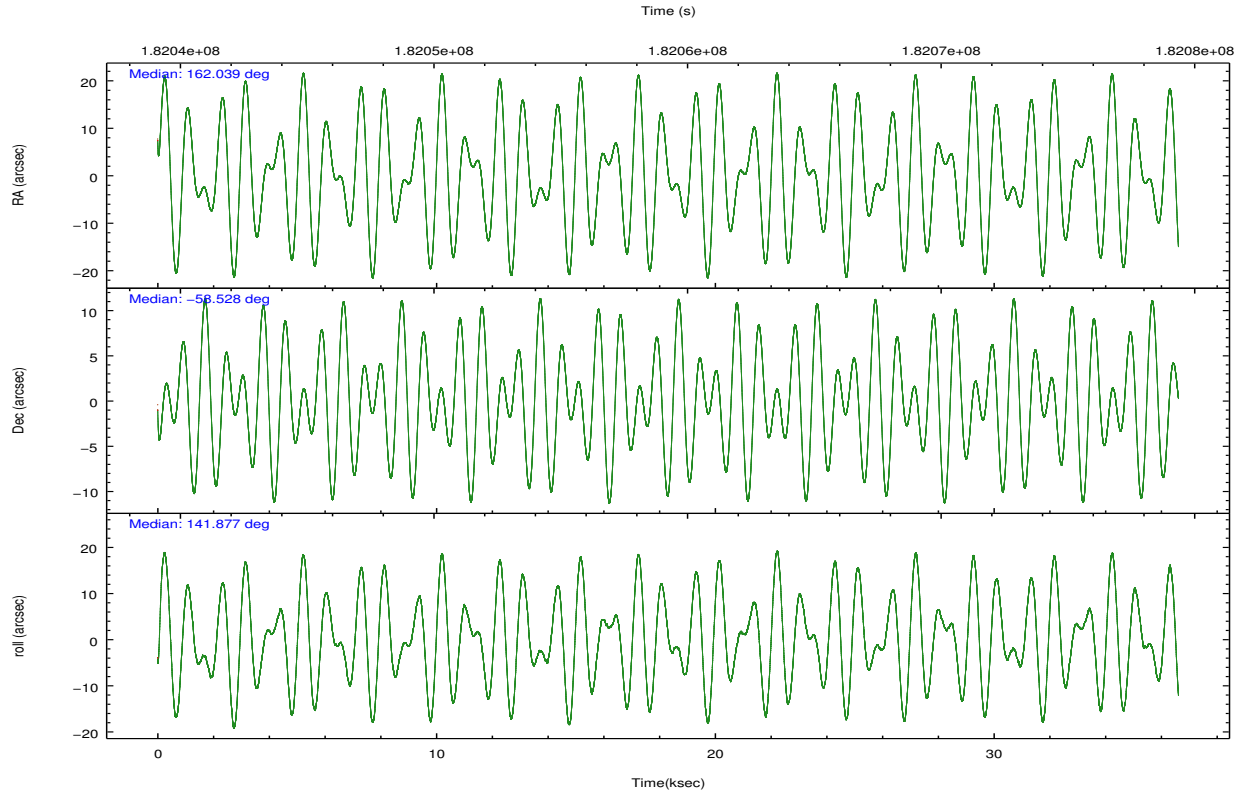
2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	195759	180077	266645	187993	208219	224369	grade 0 events	8933	9180	27523	11174	13682	17394
rejected events	175368	159691	107445	164227	87134	171553		4%	5%	10%	5%	6%	7%
rejected %	89%	88%	40%	87%	41%	76%	grade 1 events	123	125	1053	87	157	159
								0%	0%	0%	0%	0%	0%
							grade 2 events	4397	3758	44678	4503	24863	11201
								2%	2%	16%	2%	11%	4%
							grade 3 events	2044	2116	8427	2129	11867	5896
								1%	1%	3%	1%	5%	2%
							grade 4 events	2027	2053	8279	2235	11299	5662
								1%	1%	3%	1%	5%	2%
							grade 5 events	5192	5914	19270	6133	18898	8984
								2%	3%	7%	3%	9%	4%
							grade 6 events	3104	3350	71028	3858	59857	13038
								1%	1%	26%	2%	28%	5%
							grade 7 events	169939	153581	86387	157874	67596	162035
								86%	85%	32%	83%	32%	72%

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	162.090227	162.0385094564587	Subarray requested	NONE	NONE
[deg] Pointing Dec	-58.531203	-58.52772910835334	Alternating exposures requested	N	N
[deg] Pointing Roll	141.768939	141.8814480798703	[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)	182041054.184000	182039914.07111			
Observation start date	2003-10-08T22:56:30	2003-10-08T22:38:34			
[s] Observation end time (MET)	182077539.184000	182077853.93524			
Observation end date	2003-10-09T09:04:35	2003-10-09T09:10:53			
Read mode	TIMED	TIMED			

2.3 Aspect

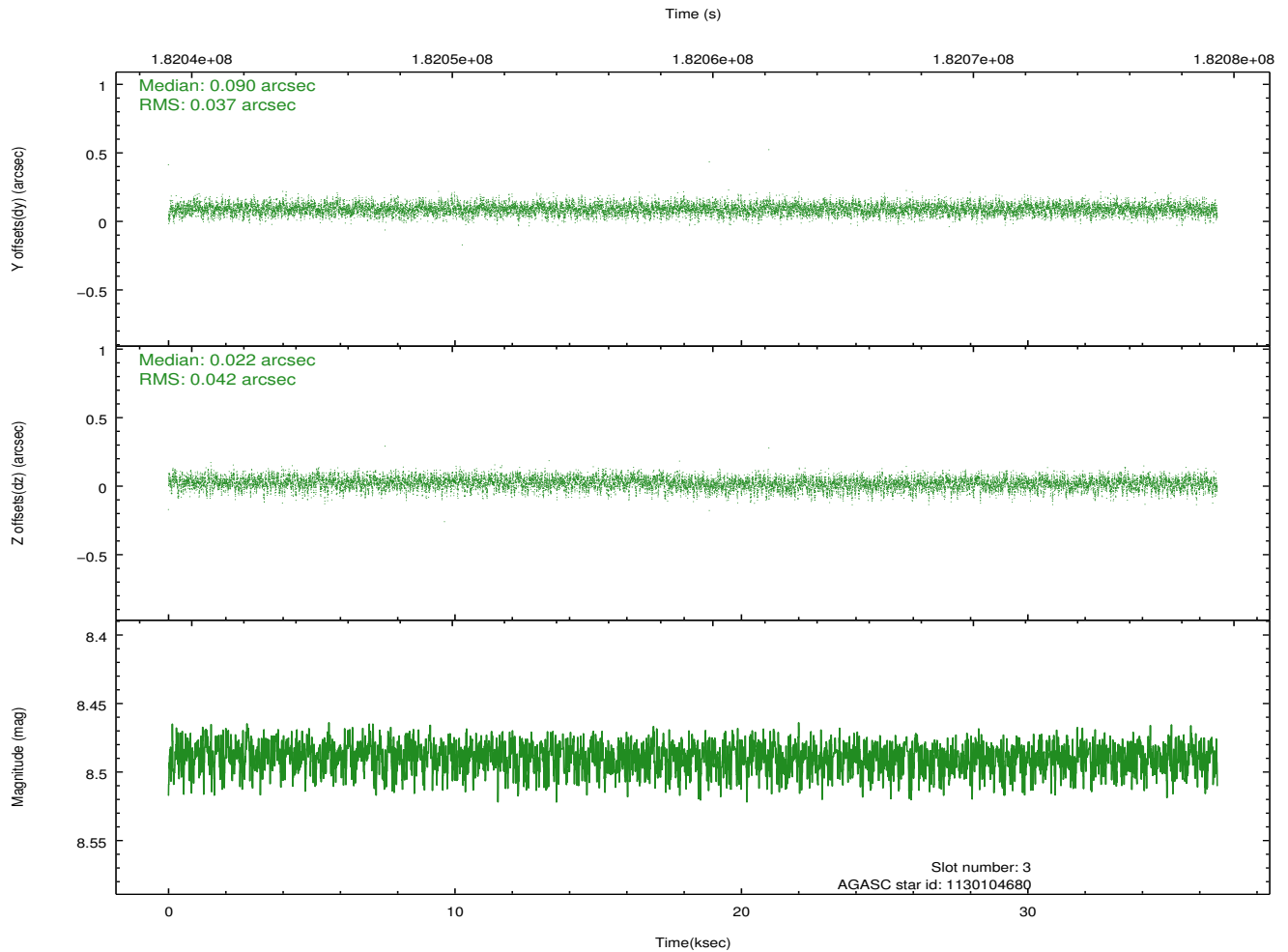
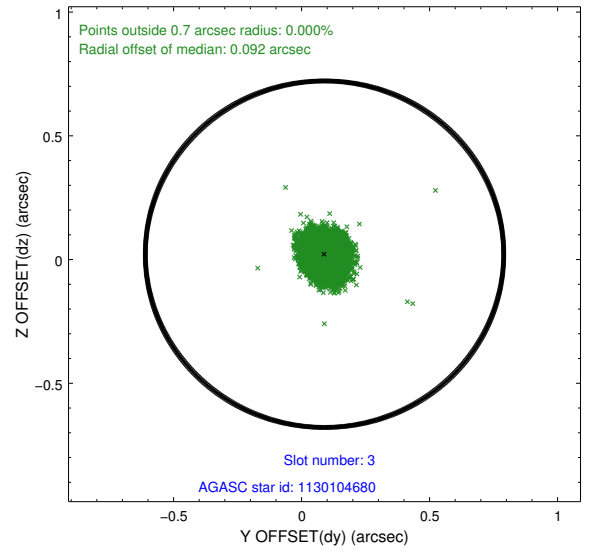
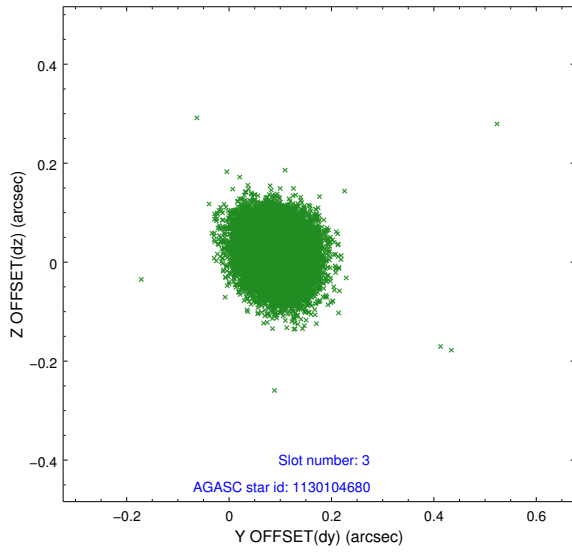


Slot Statistics

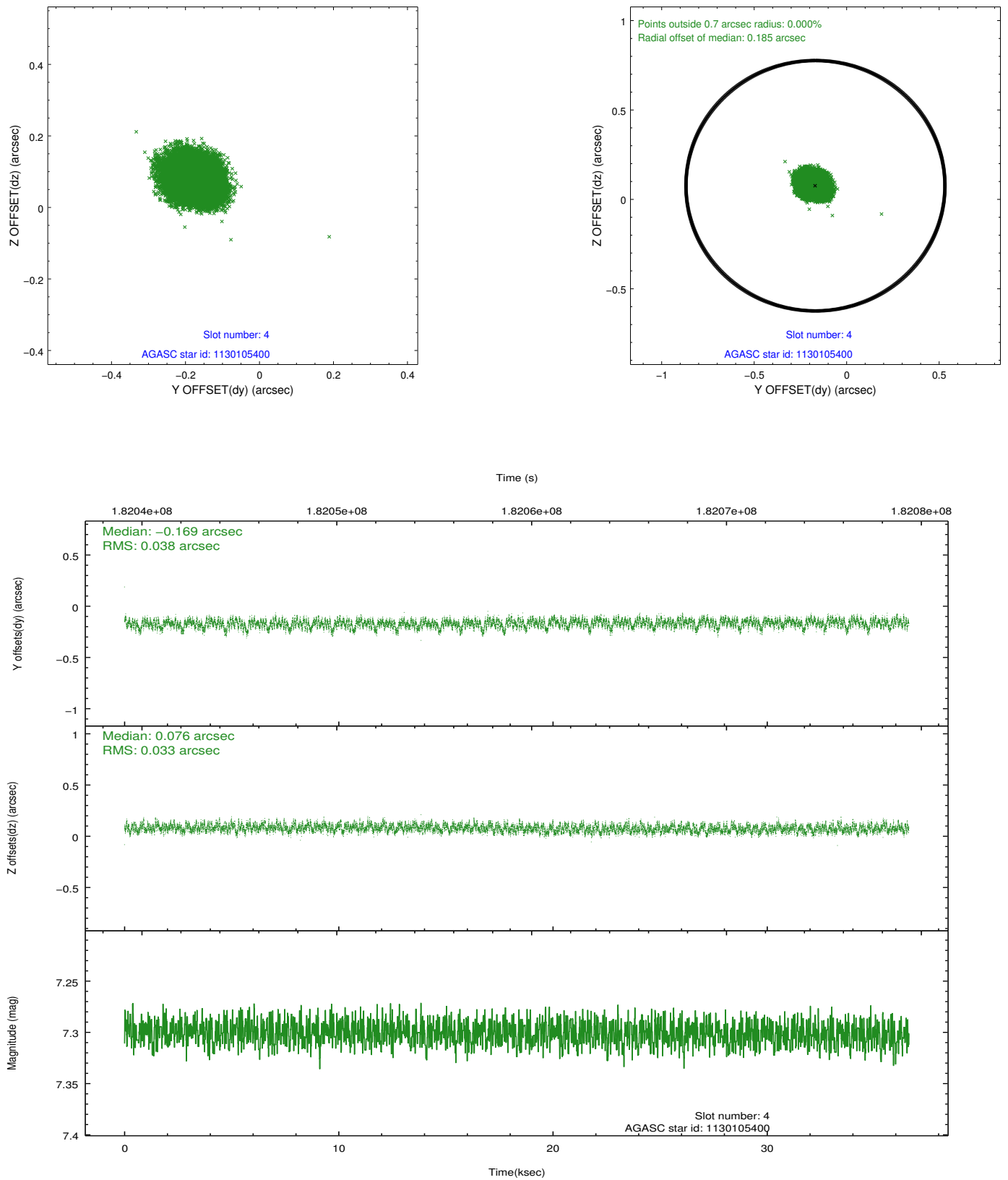
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	8932	-0.037	-0.006	0.013	0.019	0.000000	0.000000	-759.92	-1732.41
1	FID	ACIS-S-4	7.20	8932	0.056	0.020	0.014	0.022	0.000000	0.000000	2153.41	176.10
2	FID	ACIS-S-5	7.23	8931	-0.048	-0.005	0.009	0.016	0.000000	0.000000	-1812.76	169.73
3	GUIDE	1130104680	8.49	17861	0.090	0.022	0.059	0.096	162.297370	-57.969531	940.82	-1832.35
4	GUIDE	1130105400	7.30	17863	-0.169	0.076	0.054	0.086	161.912555	-57.924095	1619.41	-1506.01
5	GUIDE	1130630792	8.82	17853	0.090	-0.011	0.066	0.108	160.614173	-58.659021	1867.72	2095.86
6	GUIDE	1130630072	9.23	17854	-0.006	-0.086	0.071	0.117	162.745342	-58.921698	-1829.44	355.66
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

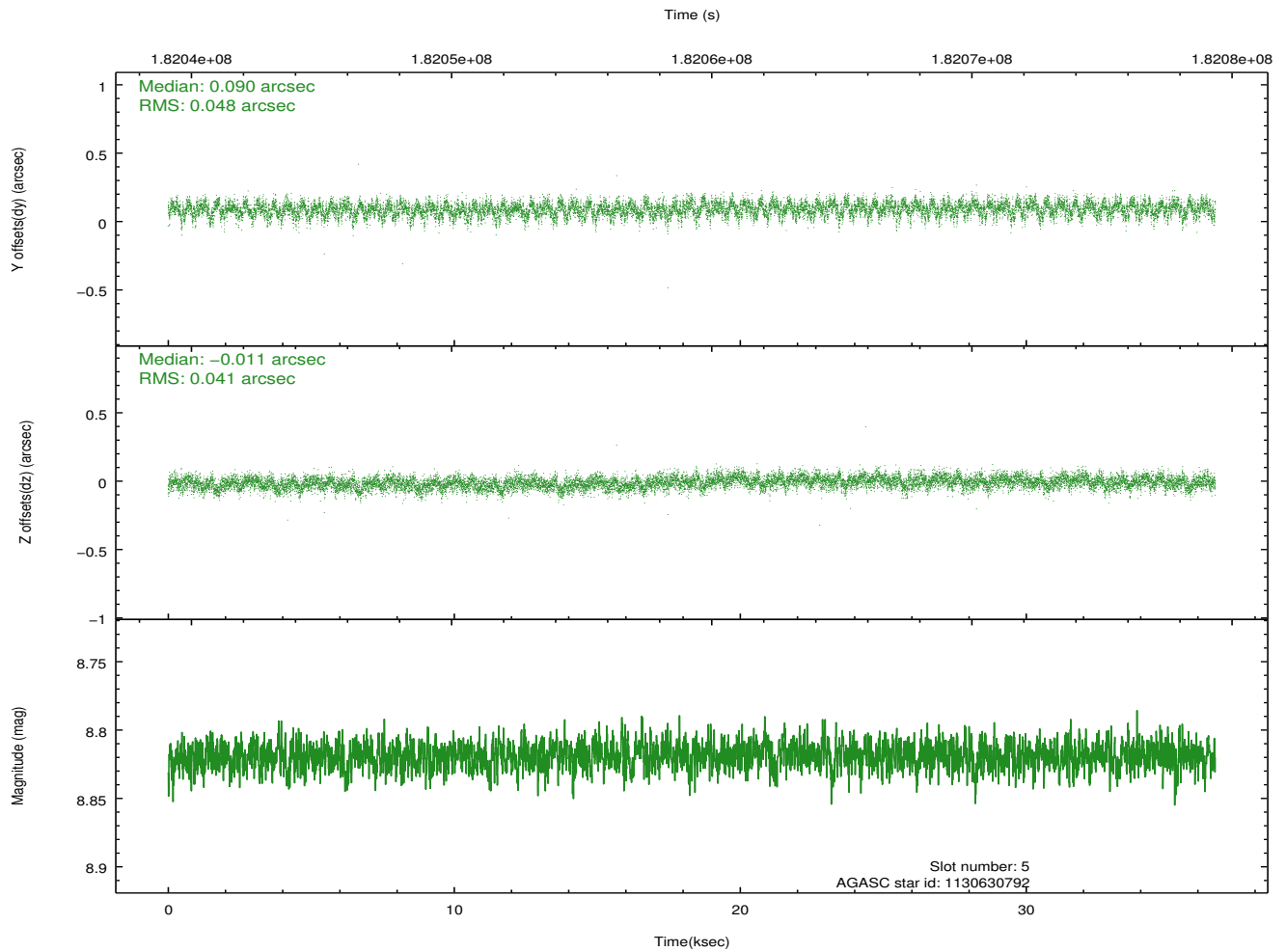
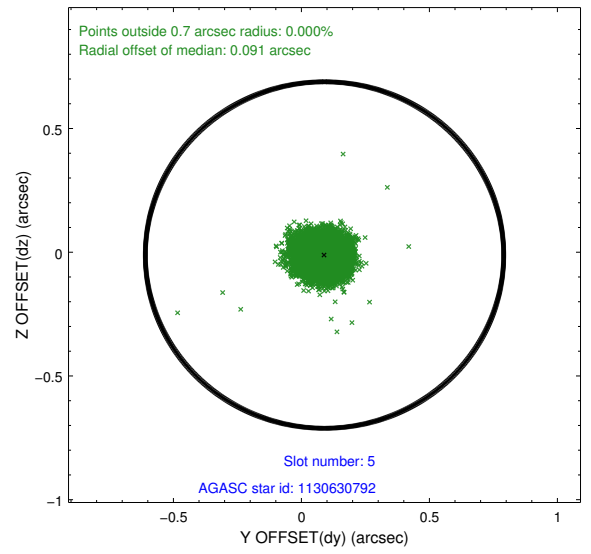
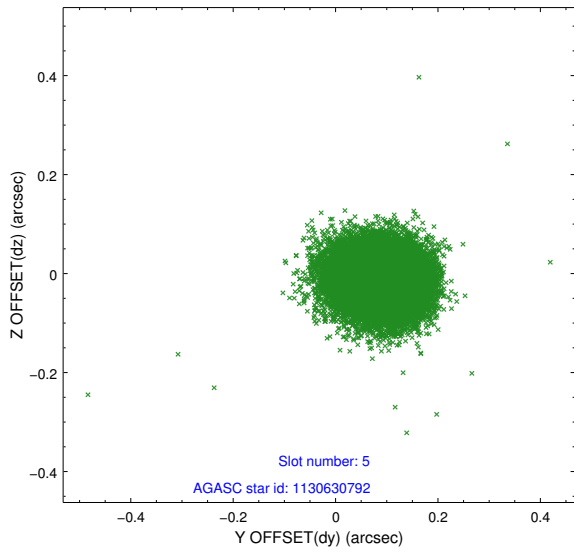
2.4.1 Slot 3



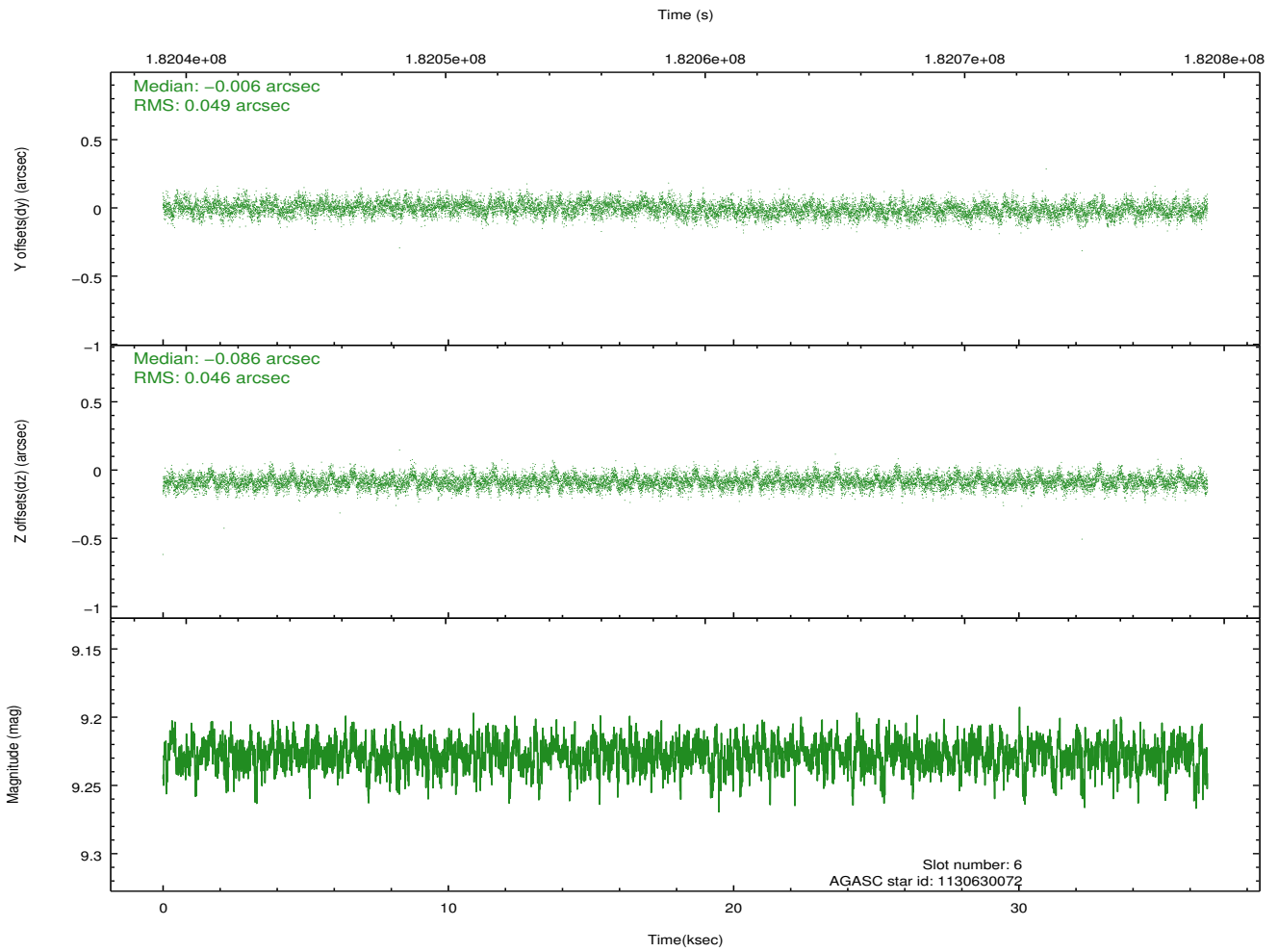
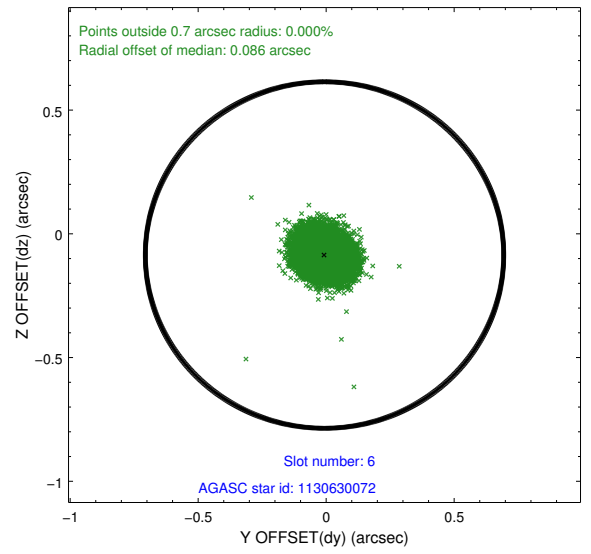
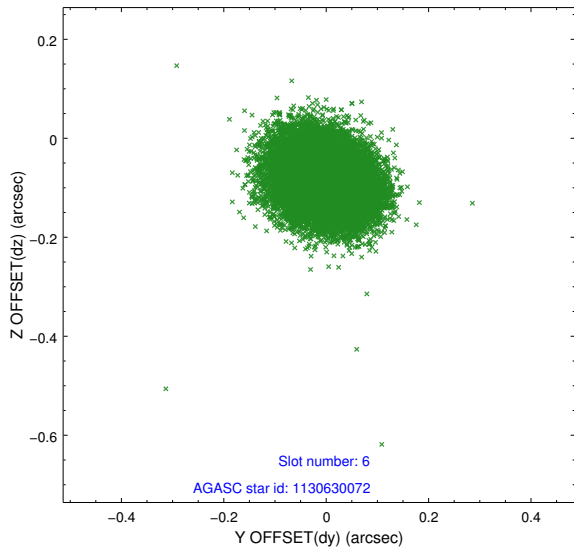
2.4.2 Slot 4



2.4.3 Slot 5

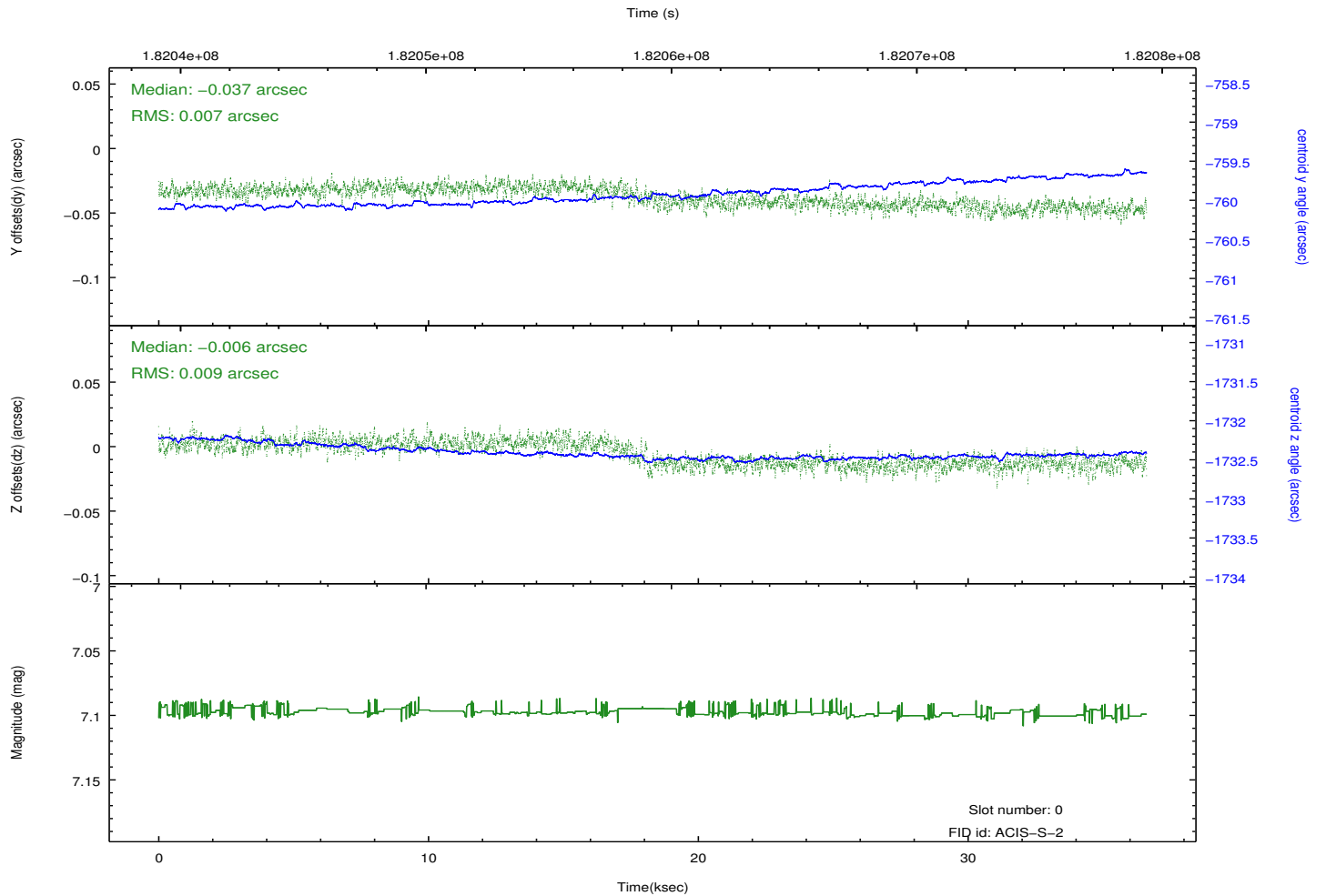
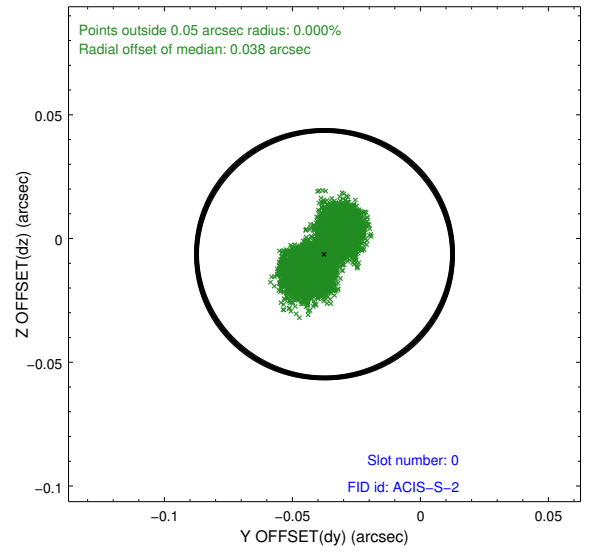
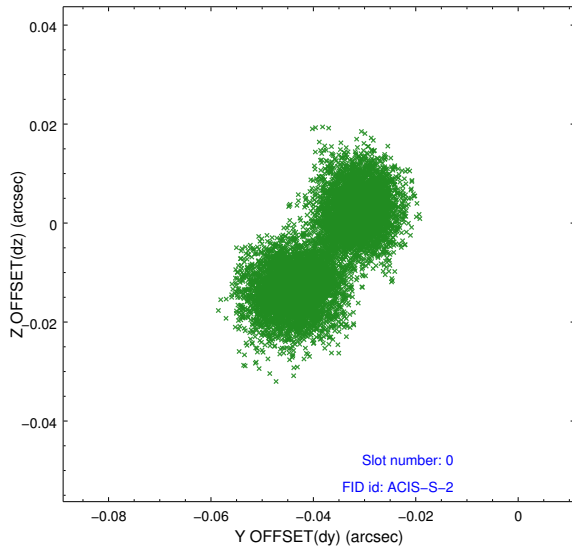


2.4.4 Slot 6

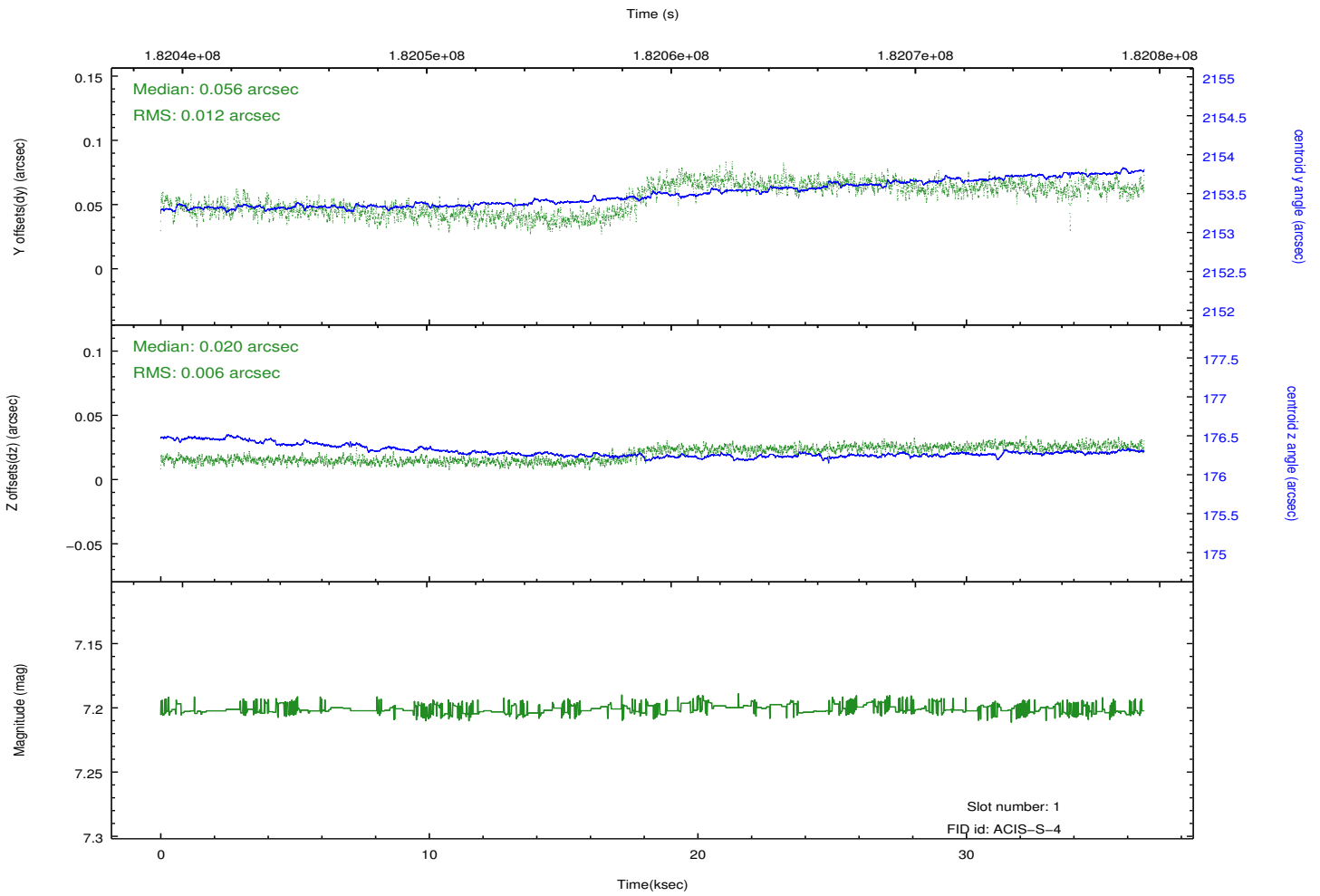
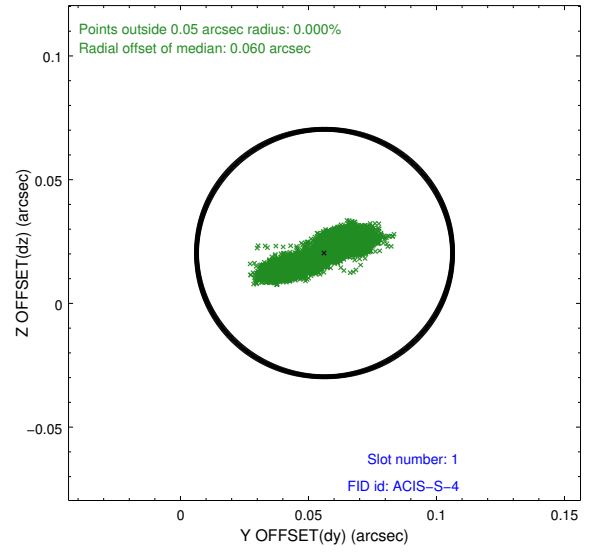
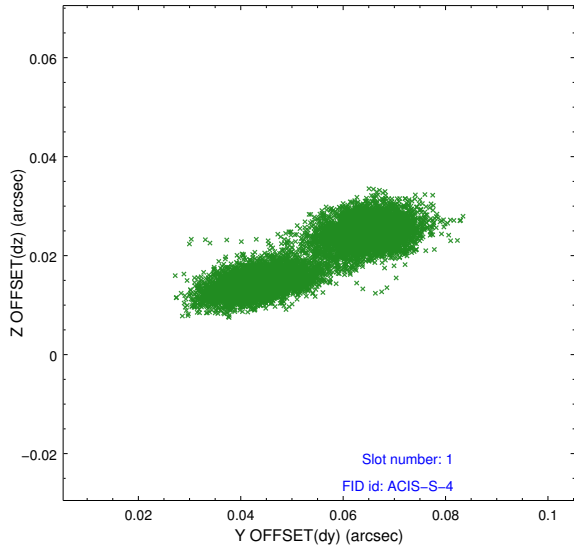


2.5 FID Slots

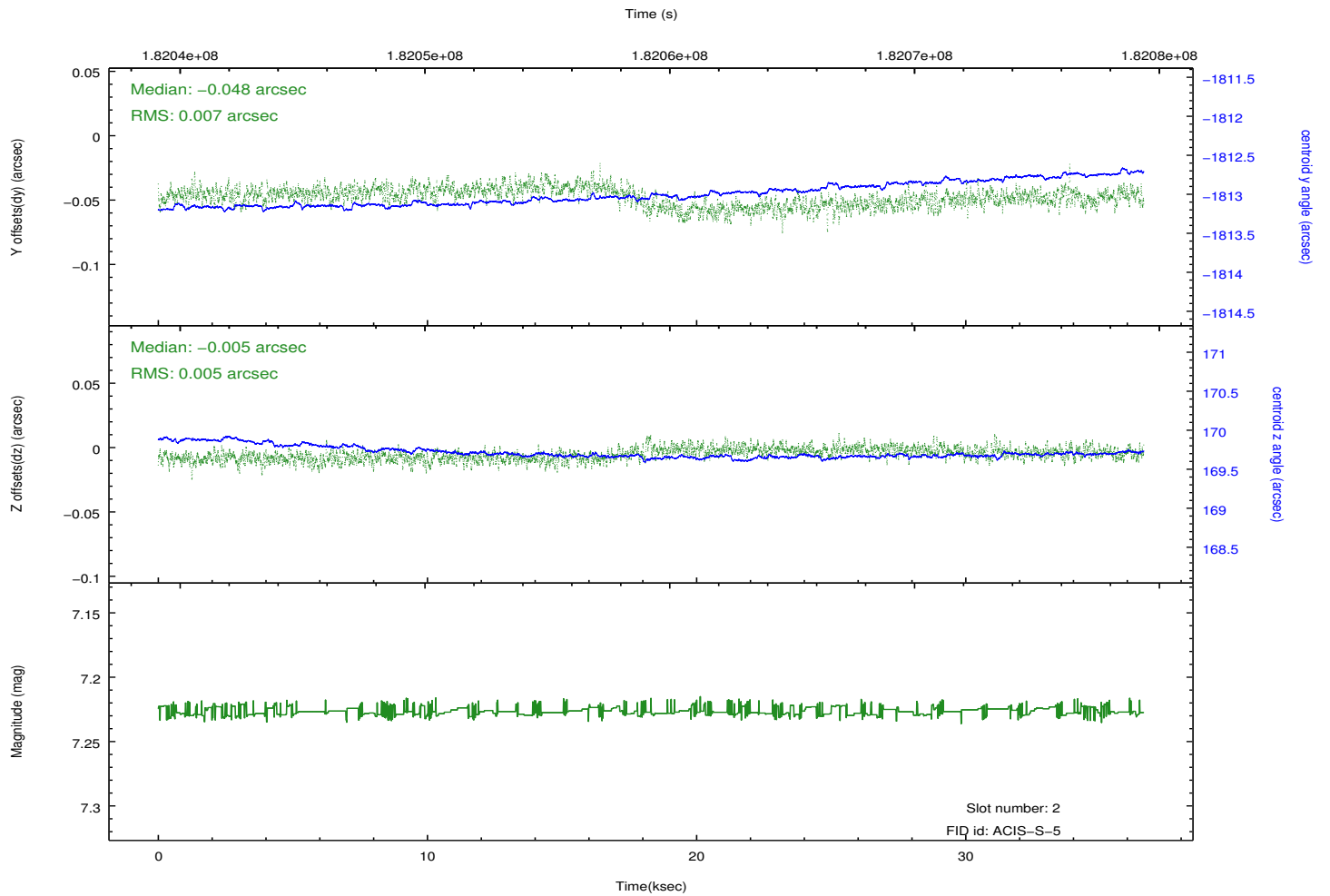
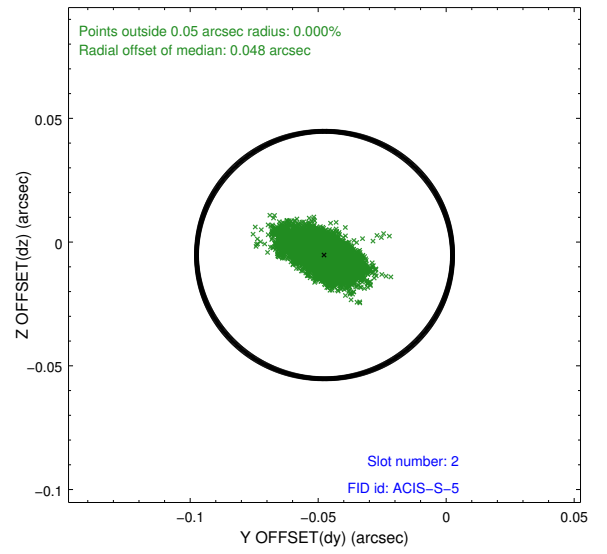
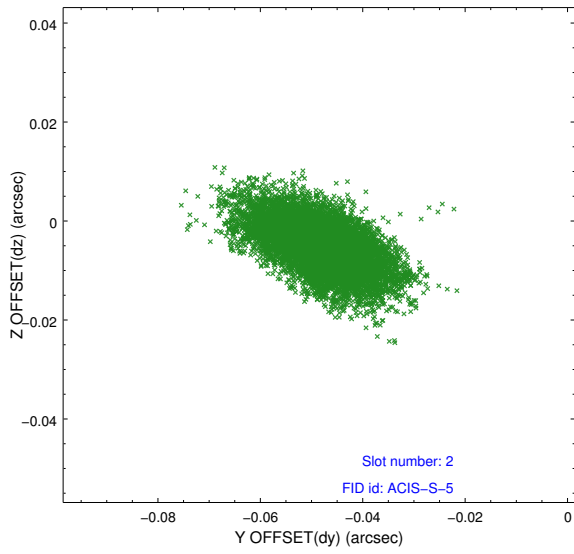
2.5.1 Slot 0



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)	2013.01.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.611

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.