

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14975 - L2 Version 2
Chandra X-Ray Center

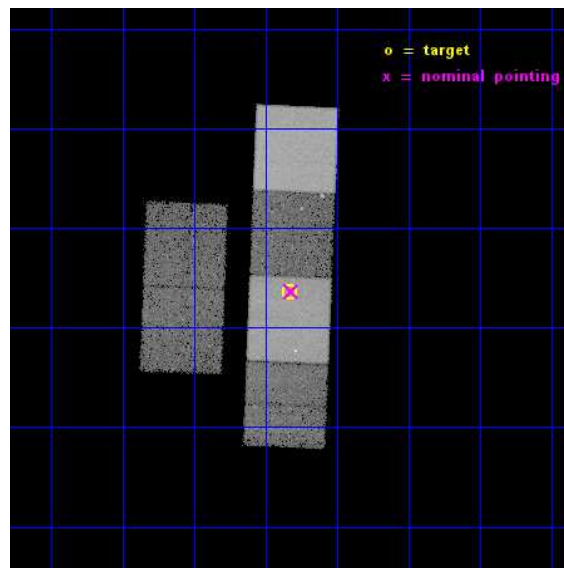
L2 Processing Date : Dec 2 2014

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1 Front

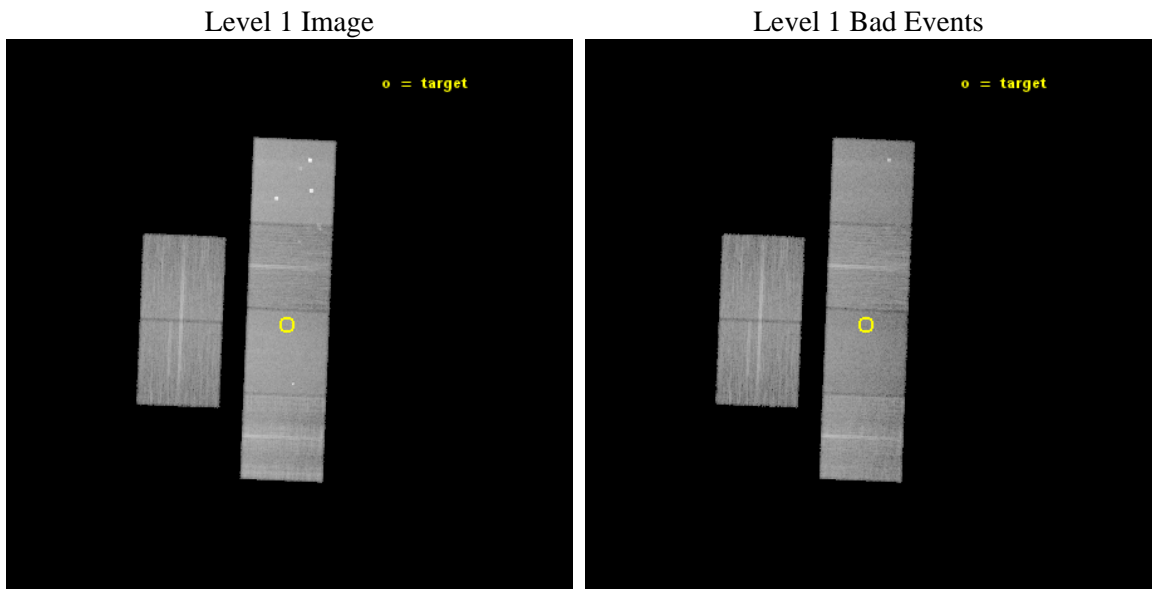
seq_num	702784	Sequence number
obs_id	14975	Observation id
title	A late time look at the candidate relativistic tidal disruption event Swift 2058+0516	Proposal title
observer	Dr Andrew Levan	Principal investigator
object	Swift2058+0516	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	314.5825	Observer's specified target RA [deg]
dec_targ	5.225833	Observer's specified target Dec [deg]
ra_nom	314.57987100836	Nominal RA [deg]
dec_nom	5.2273607520278	Nominal Dec [deg]
roll_nom	92.355569715428	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29964.799888432	Sum of GTIs [s]
livetime	29585.367549608	Livetime [s]
ontime2	29961.558918118	Sum of GTIs [s]
ontime3	29958.317967594	Sum of GTIs [s]
ontime5	29964.799888432	Sum of GTIs [s]
ontime6	29964.799888432	Sum of GTIs [s]
ontime7	29964.799888432	Sum of GTIs [s]
ontime8	29964.790964365	Sum of GTIs [s]
l2events	278803	Number of level 2 events



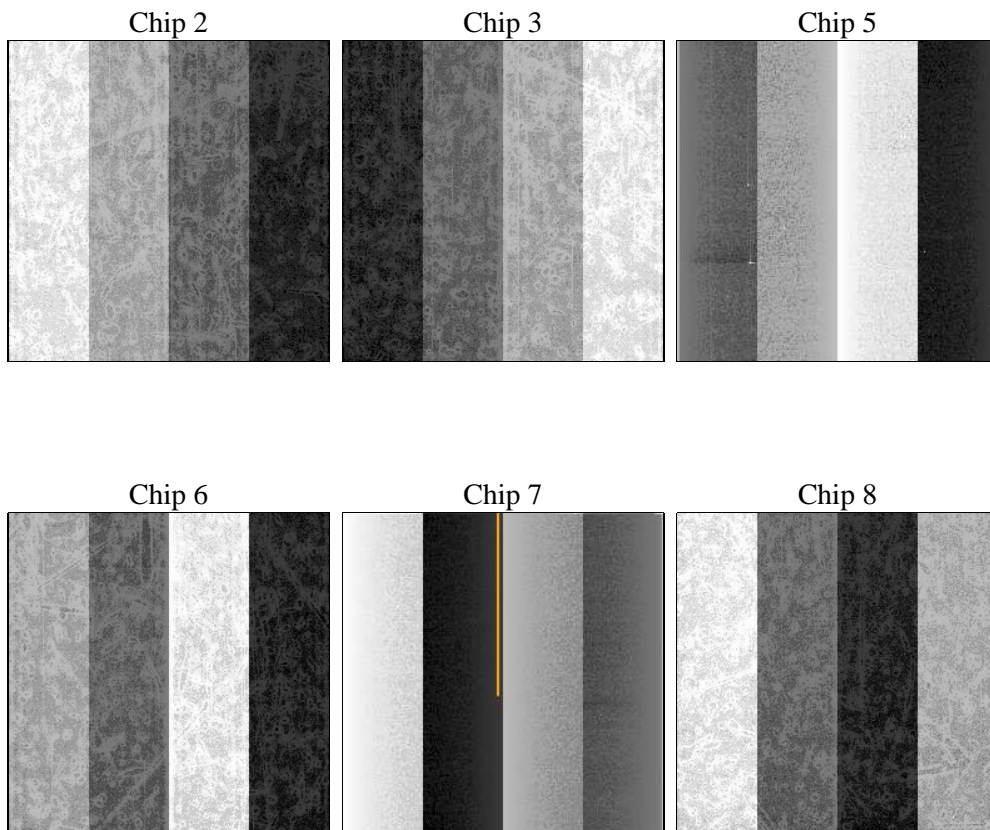
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	29964.799888432	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	29961.558918118	Sum of GTIs [s]
date	2014-12-02T12:48:22	Date and time of file creation	ontime3	29958.317967594	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	29964.799888432	Sum of GTIs [s]
			ontime6	29964.799888432	Sum of GTIs [s]
			ontime7	29964.799888432	Sum of GTIs [s]
			ontime8	29964.790964365	Sum of GTIs [s]
			l1events	1176822	Number of level 1 events

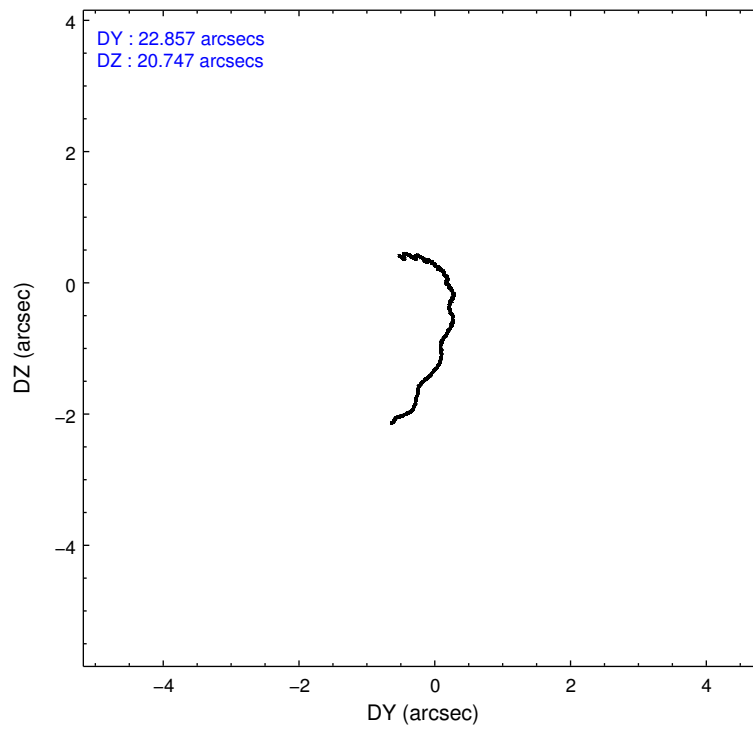
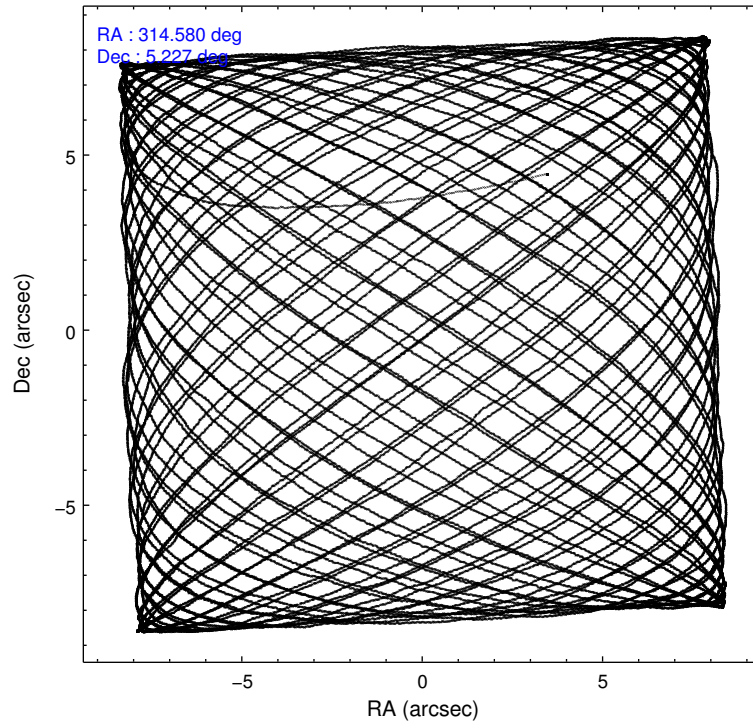
2.1.4 Events

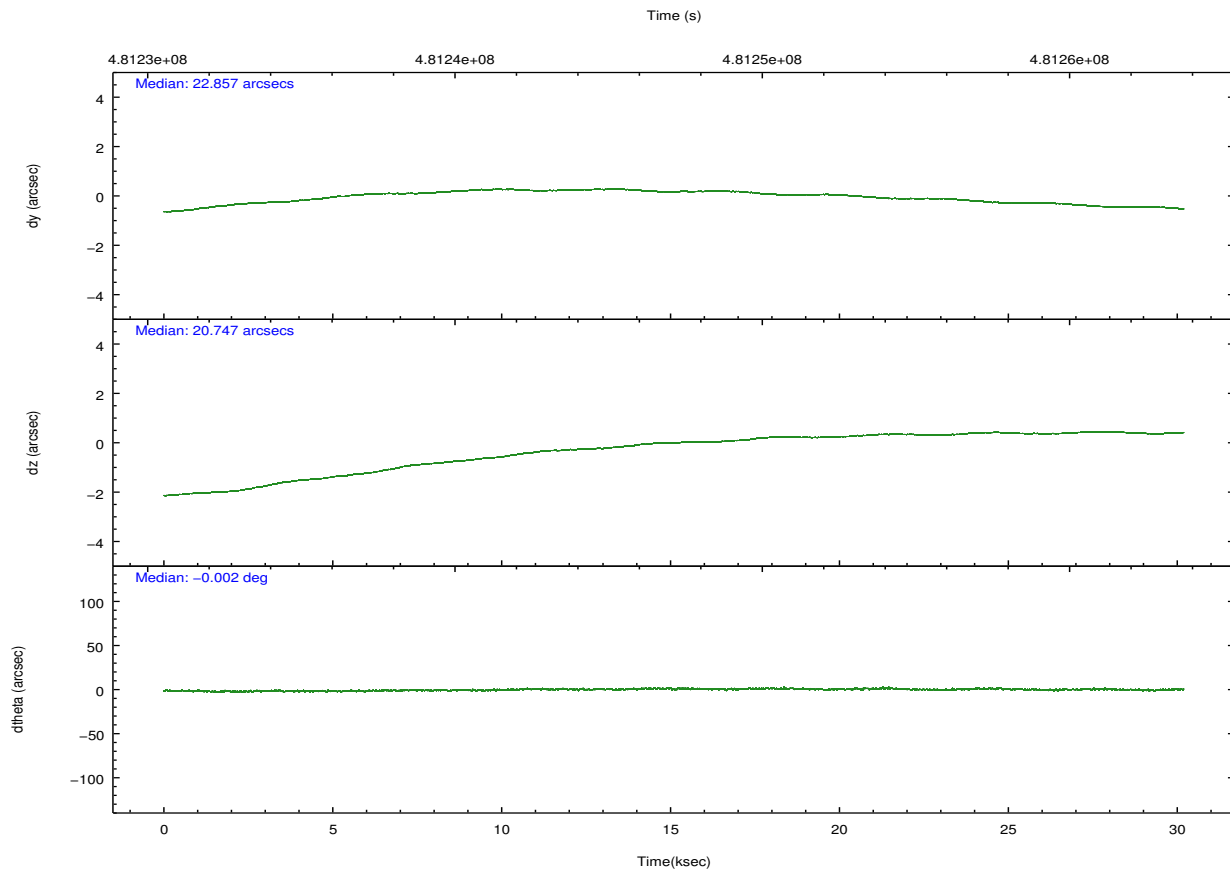
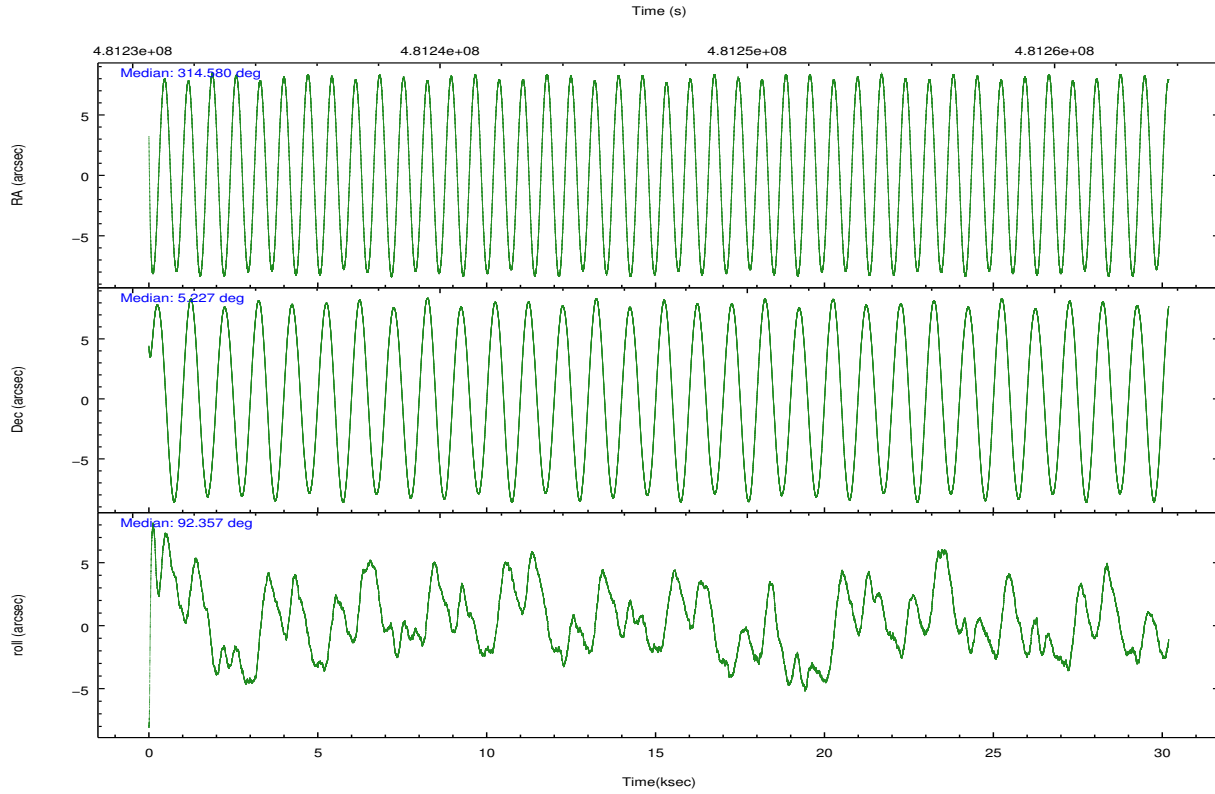
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	158102	150059	277346	162753	212773	215789	grade 0 events	6196	6156	23386	6723	8666	17009
rejected events	140136	132685	135389	143098	118271	157146		3%	4%	8%	4%	4%	7%
rejected %	88%	88%	48%	87%	55%	72%	grade 1 events	97	92	1696	79	249	166
								0%	0%	0%	0%	0%	0%
							grade 2 events	4501	3812	41449	4439	19559	13975
								2%	2%	14%	2%	9%	6%
							grade 3 events	1821	1861	4517	2037	8311	5961
								1%	1%	1%	1%	3%	2%
							grade 4 events	1795	1884	4633	1962	8079	5821
								1%	1%	1%	1%	3%	2%
							grade 5 events	6994	8099	20007	8235	22217	11859
								4%	5%	7%	5%	10%	5%
							grade 6 events	3655	3662	67986	4497	49898	15878
								2%	2%	24%	2%	23%	7%
							grade 7 events	133043	124493	113672	134781	95794	145120
								84%	82%	40%	82%	45%	67%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	314.594878	314.5798710083596	CCD I2 on	O3	Y
[deg] Pointing Dec	5.204451	5.227360752027813	CCD I3 on	O4	Y
[deg] Pointing Roll	92.197593	92.35556971542779	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	481232221.184000	481231250.72756	CCD S5 on	N	N
Observation start date	2013-04-01T19:35:54	2013-04-01T19:20:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	481262221.184000	481263231.75429	On-chip summing requested	N	N
Observation end date	2013-04-02T03:55:54	2013-04-02T04:13:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



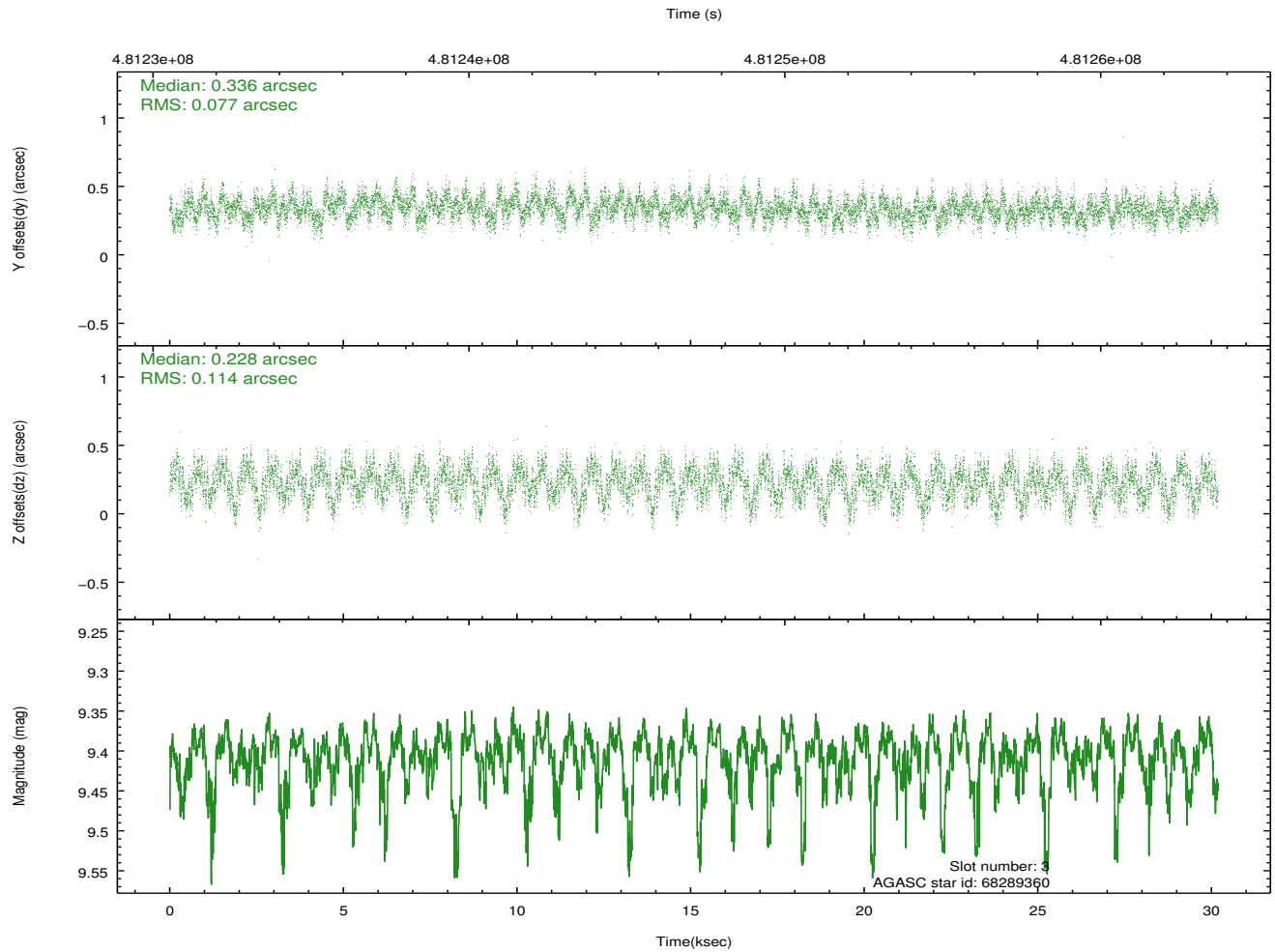
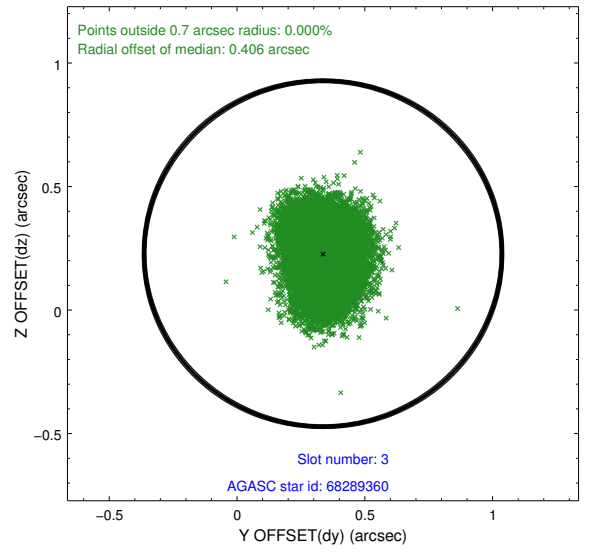
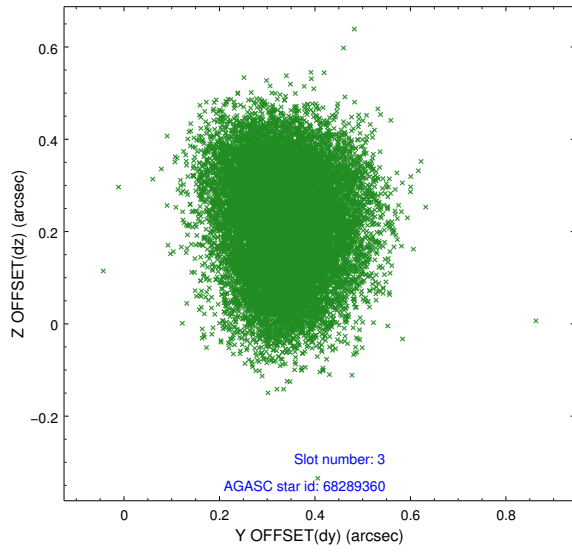


Slot Statistics

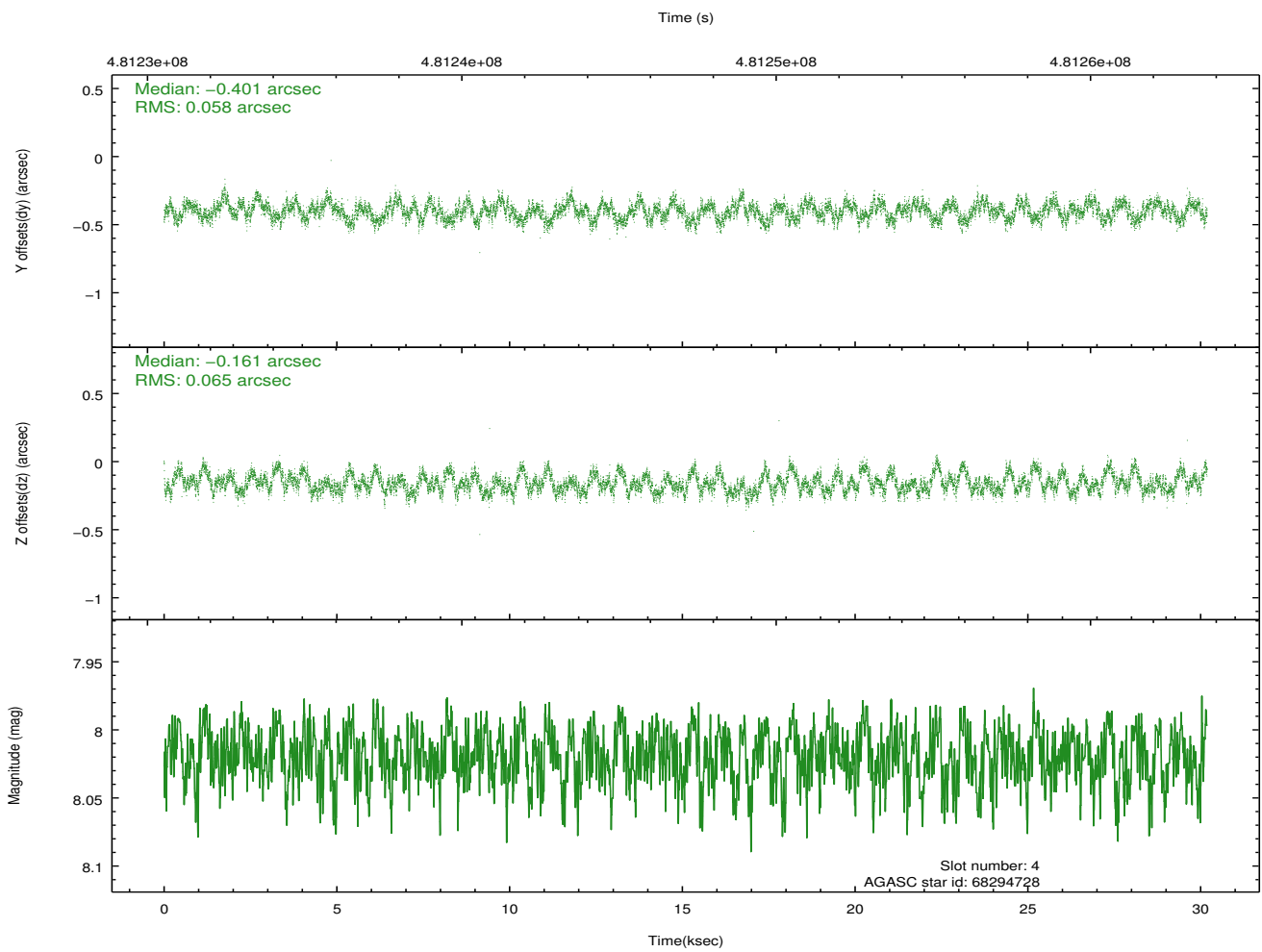
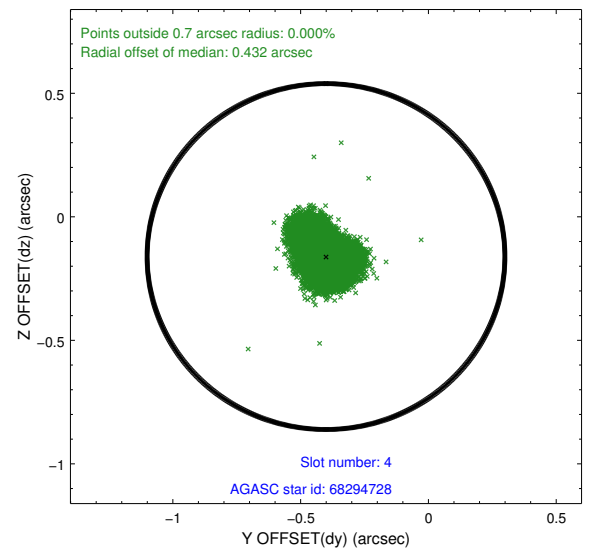
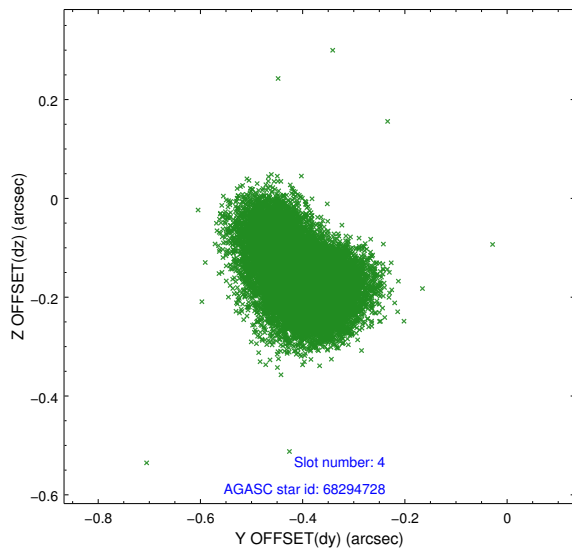
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	7364	0.070	-0.037	0.025	0.087	0.000000	0.000000	920.03	-1737.62
1	FID		ACIS-S-2	6.94	7364	-0.206	-0.068	0.026	0.037	0.000000	0.000000	-776.11	-1742.20
2	FID		ACIS-S-4	7.02	7364	0.111	0.104	0.021	0.048	0.000000	0.000000	2137.38	166.52
3	GUIDE	used	68289360	9.40	14674	0.336	0.228	0.149	0.234	314.851818	4.732502	-1732.18	-855.92
4	GUIDE	used	68294728	8.02	14726	-0.401	-0.161	0.093	0.148	314.337495	5.362003	602.61	899.93
5	GUIDE	used	68818264	8.32	14725	-0.259	-0.263	0.086	0.142	314.871687	5.856158	2306.76	-1080.65
6	GUIDE	used	70009136	9.45	14662	0.399	0.436	0.163	0.274	315.248882	4.702103	-1895.16	-2274.91
7	GUIDE	used	68297496	9.45	14671	-0.070	-0.236	0.118	0.192	314.202757	4.562790	-2253.76	1494.67

2.4 Star Slots

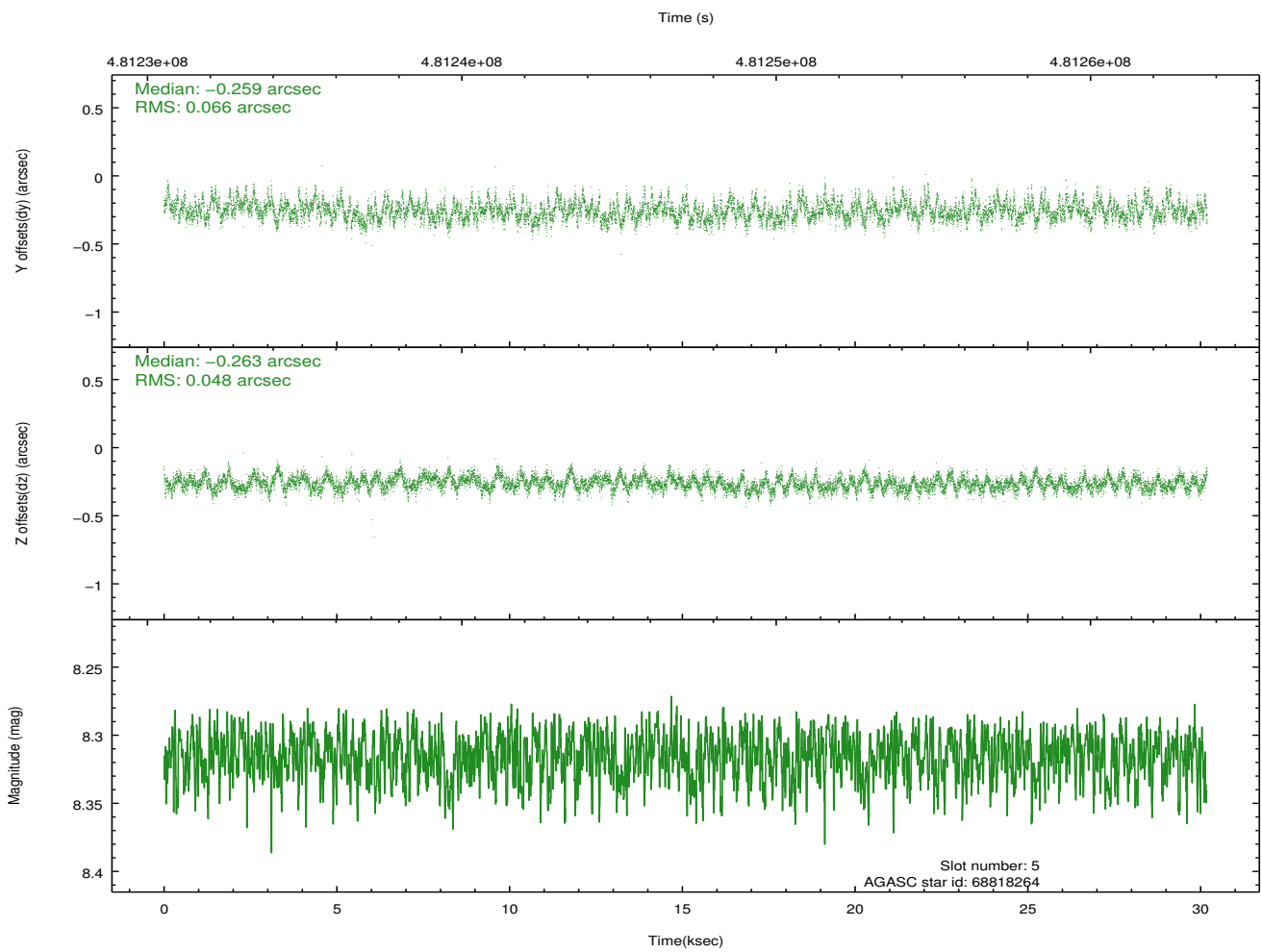
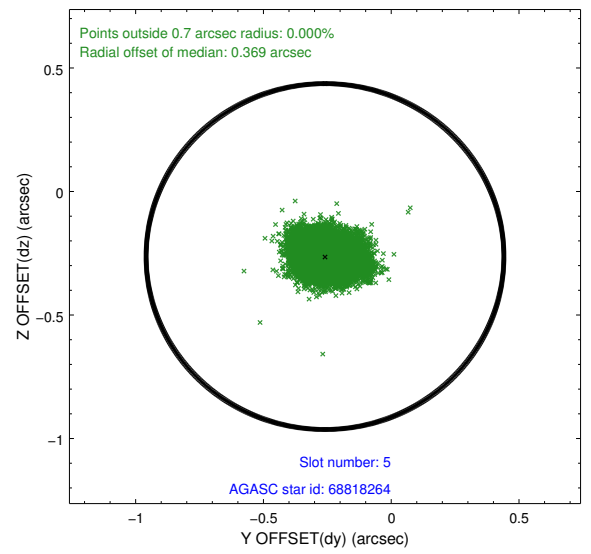
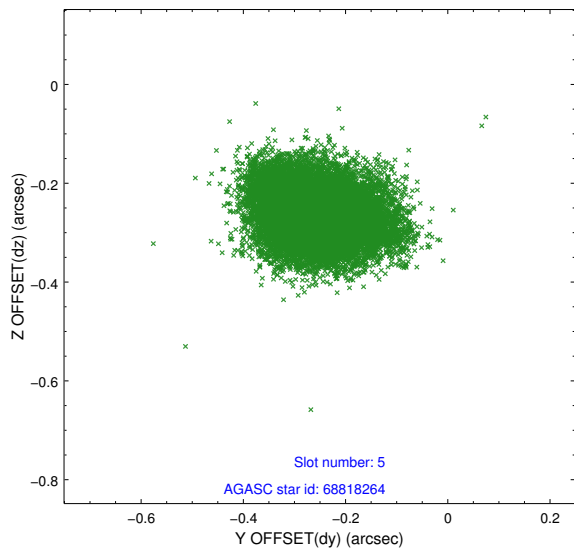
2.4.1 Slot 3



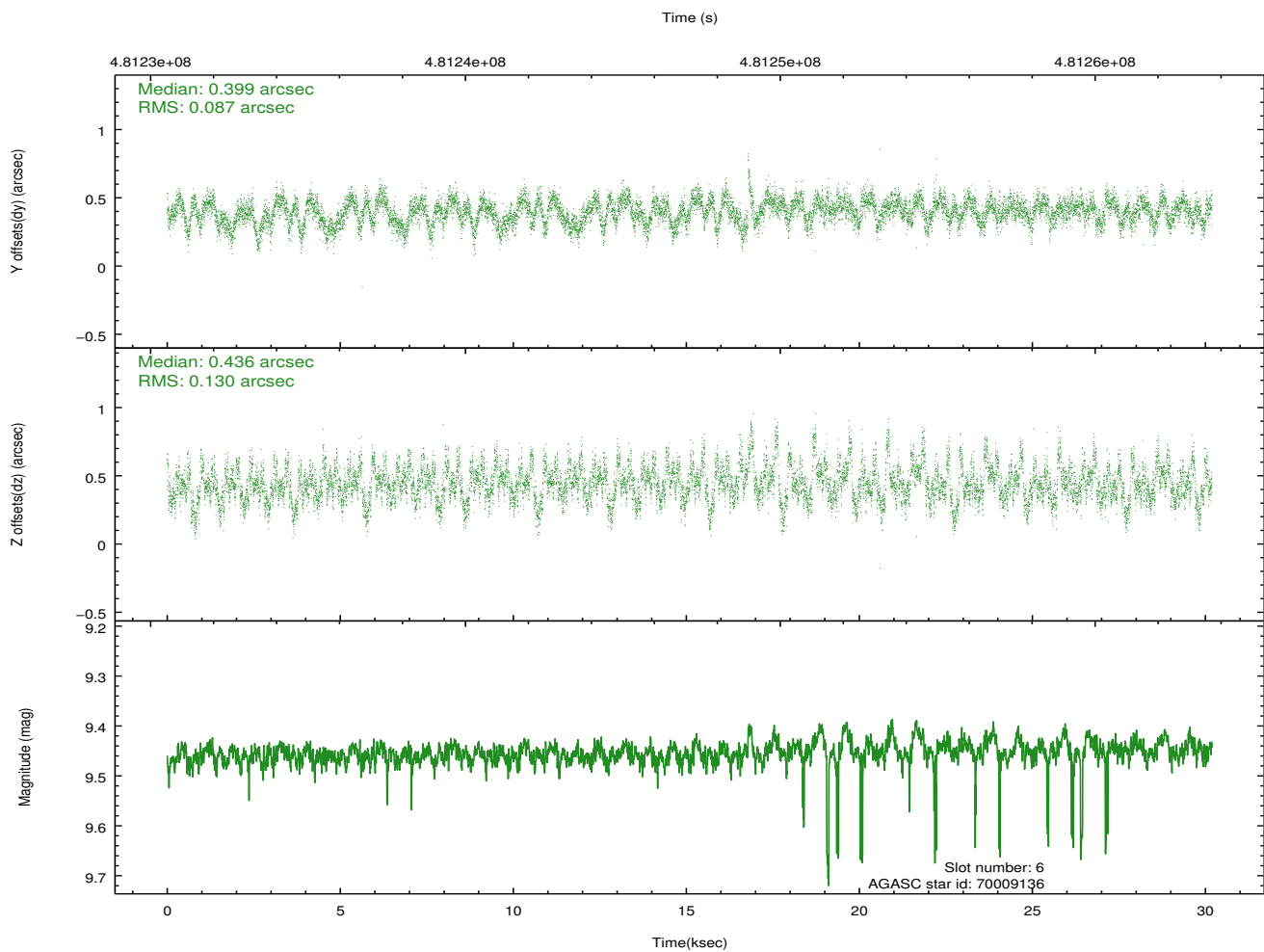
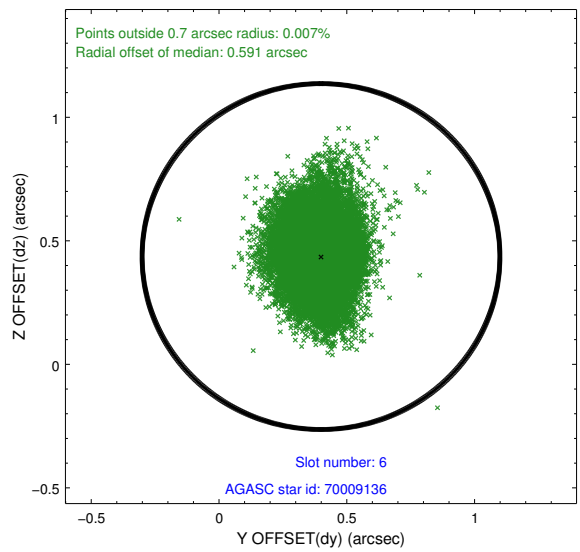
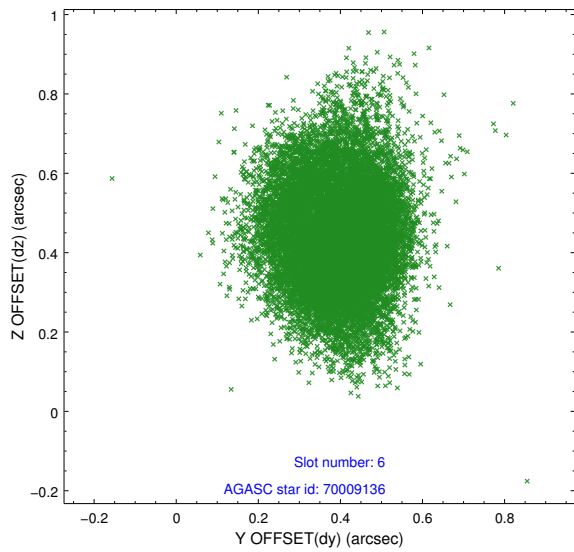
2.4.2 Slot 4



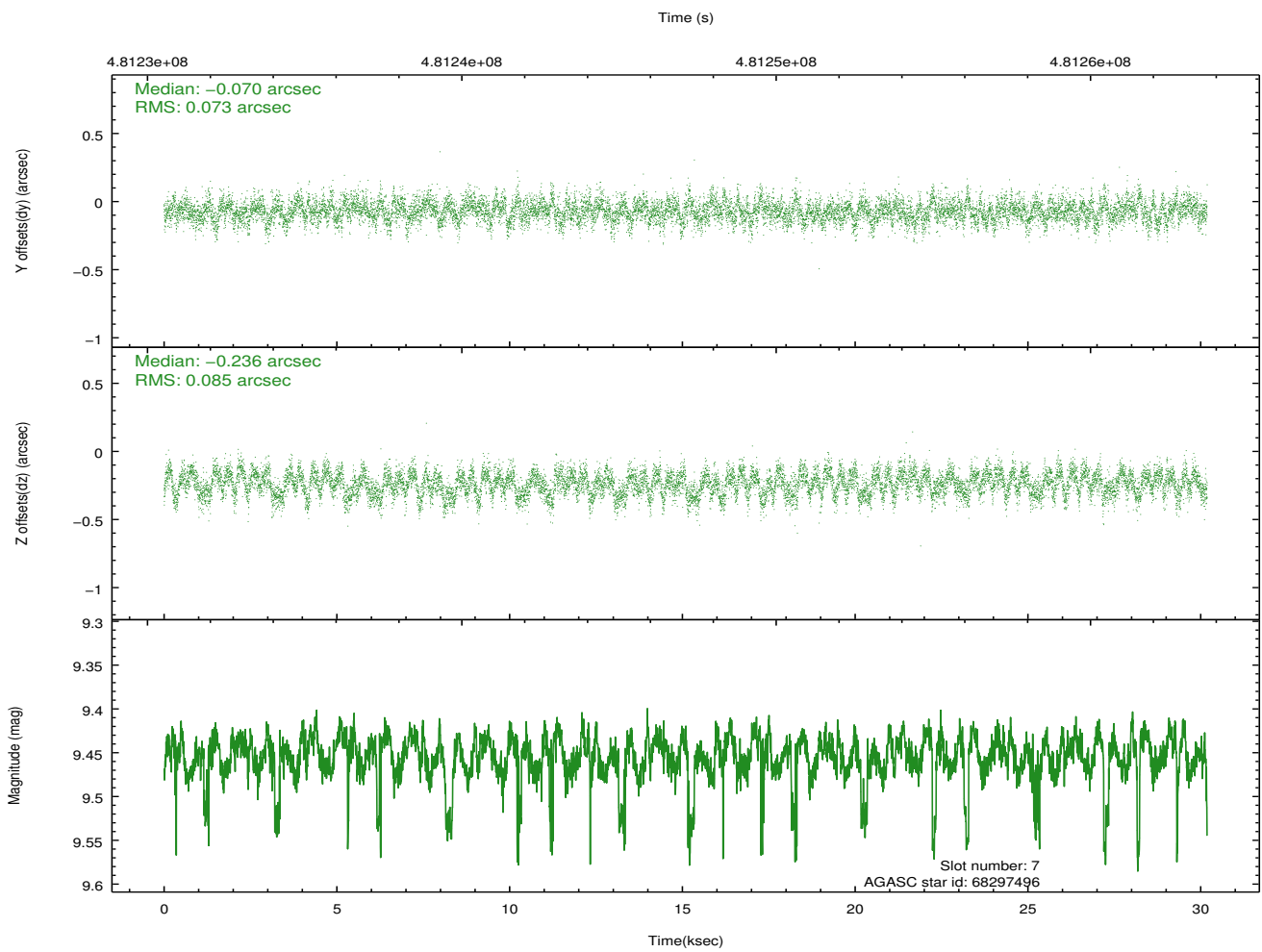
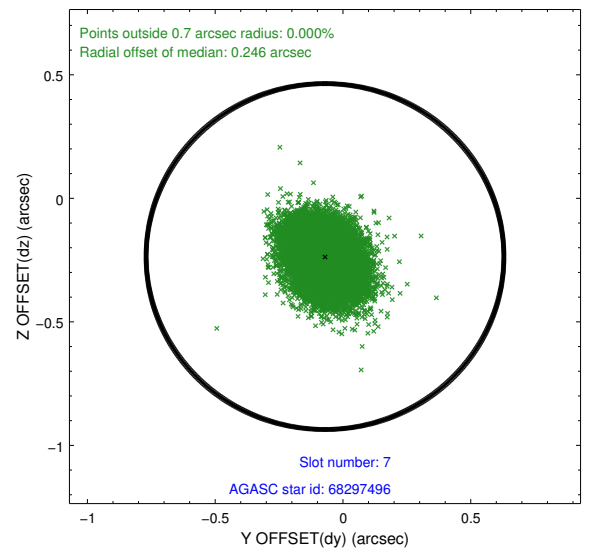
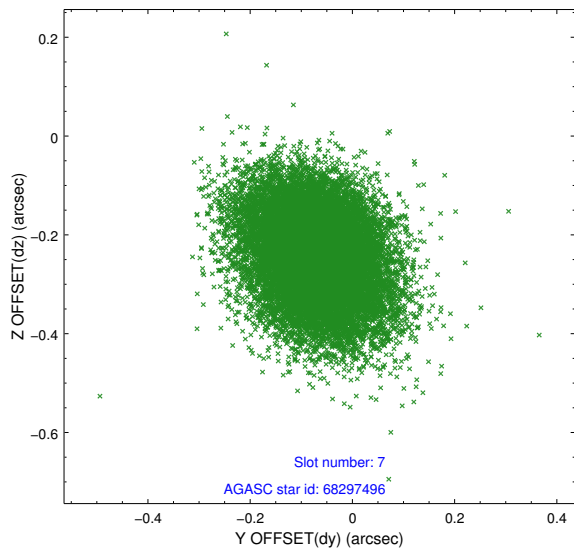
2.4.3 Slot 5



2.4.4 Slot 6

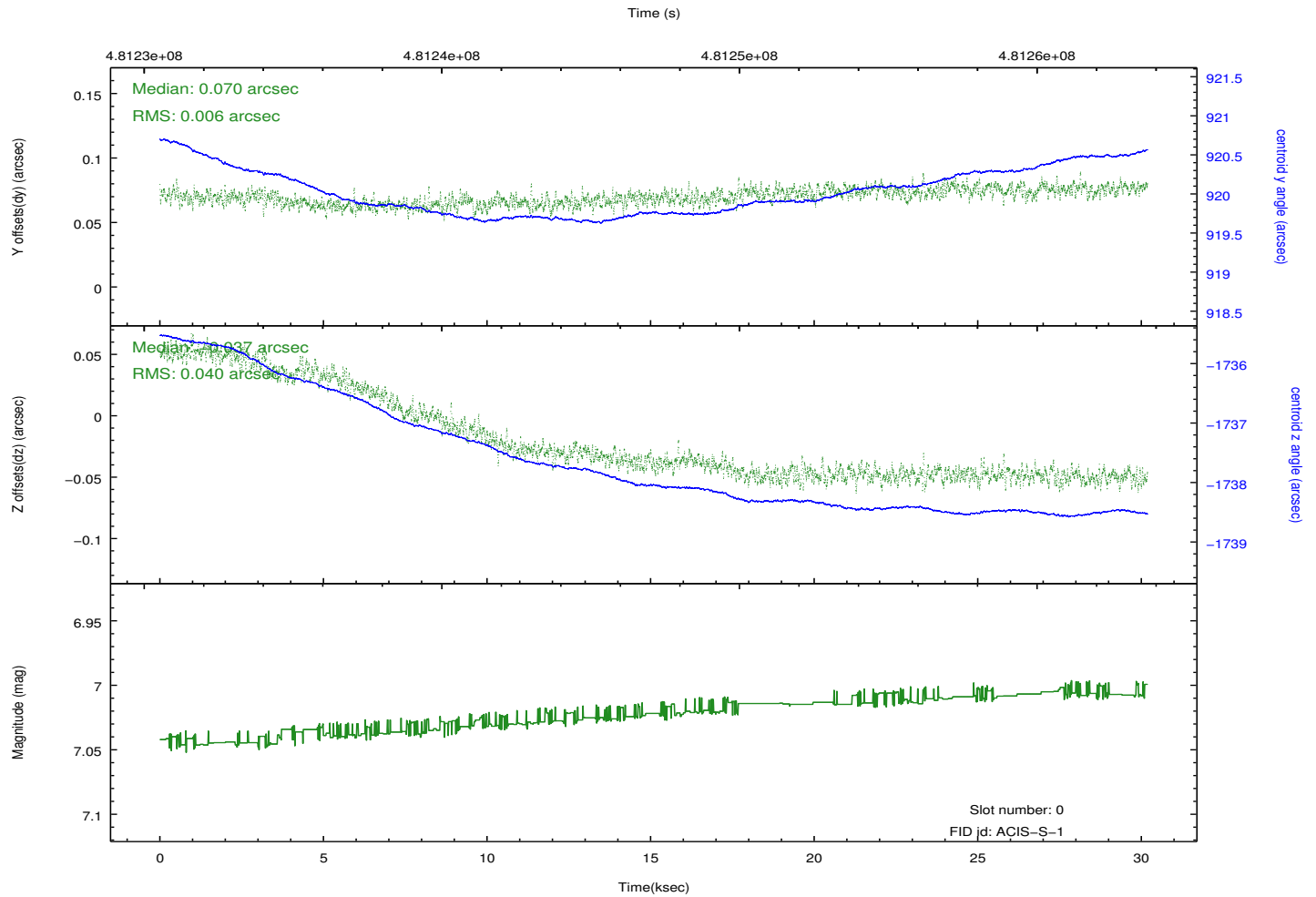
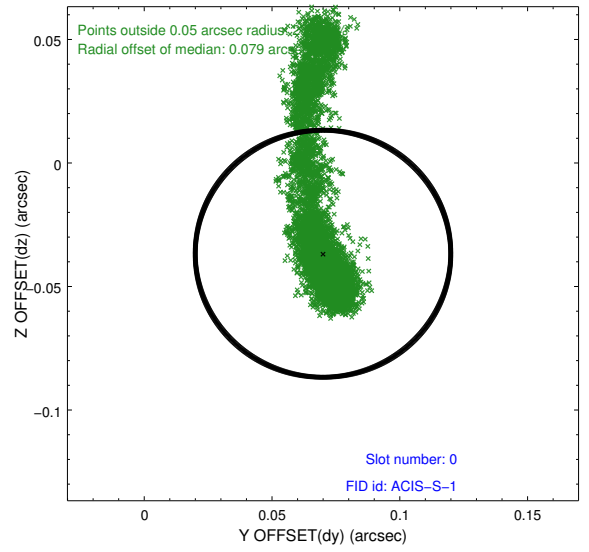
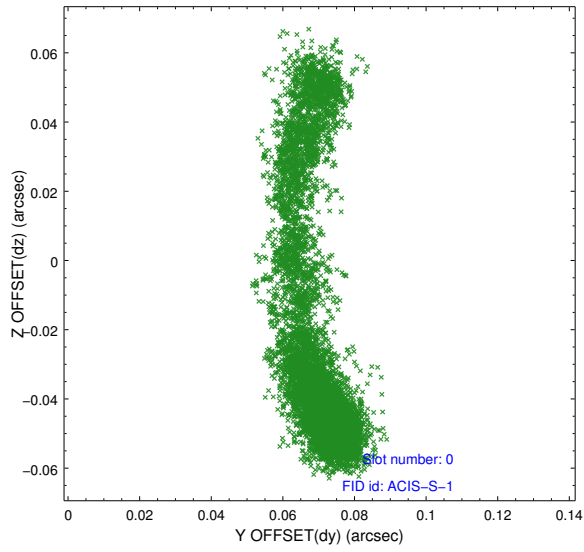


2.4.5 Slot 7

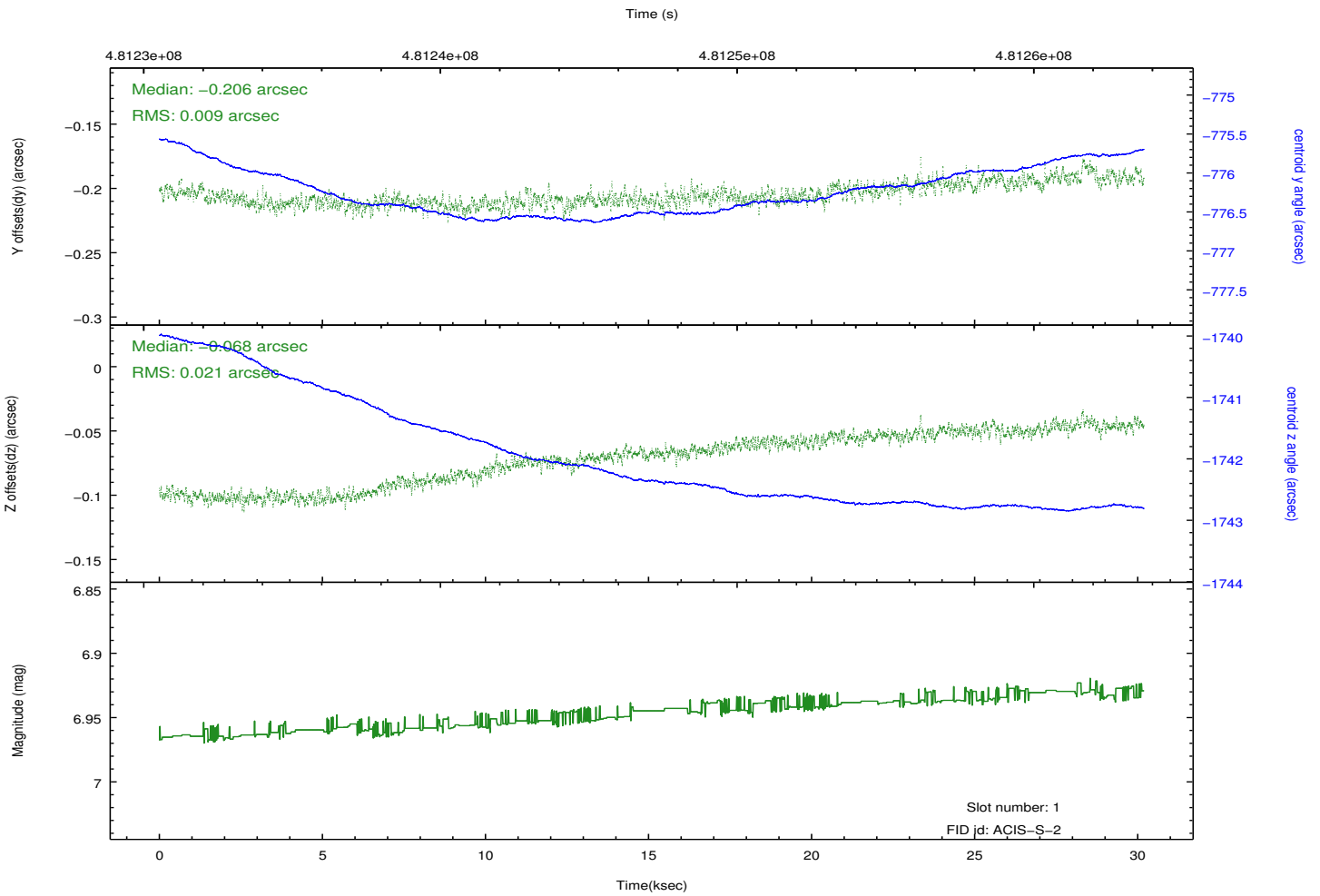
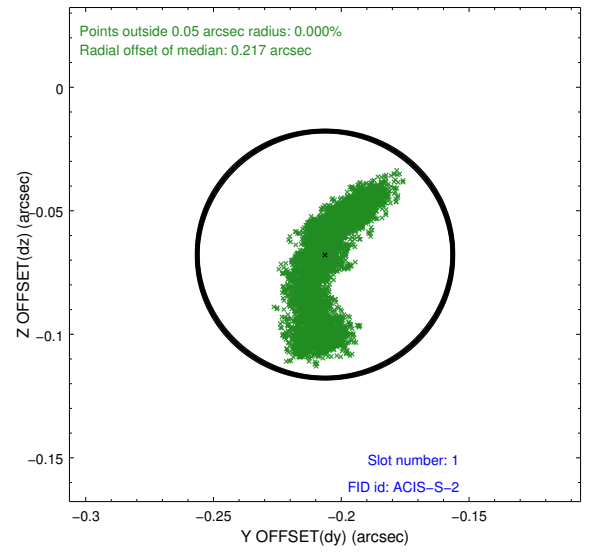
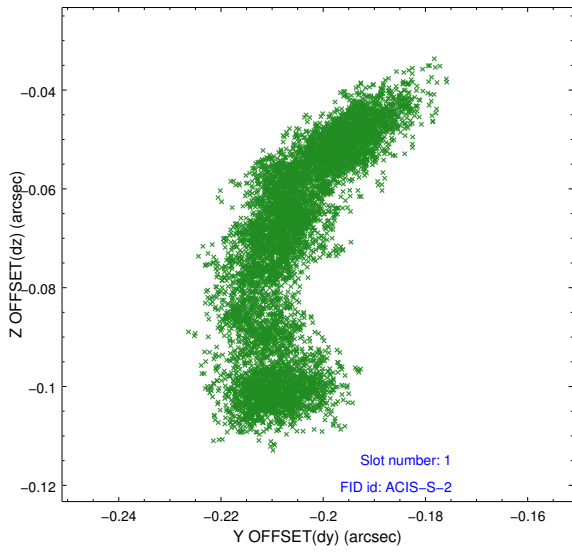


2.5 FID Slots

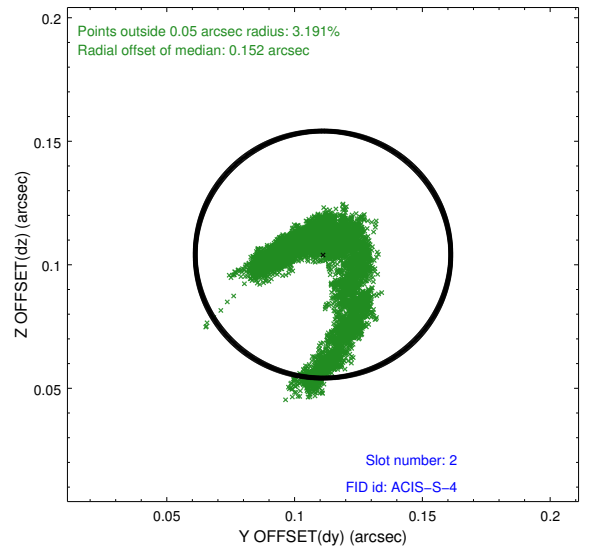
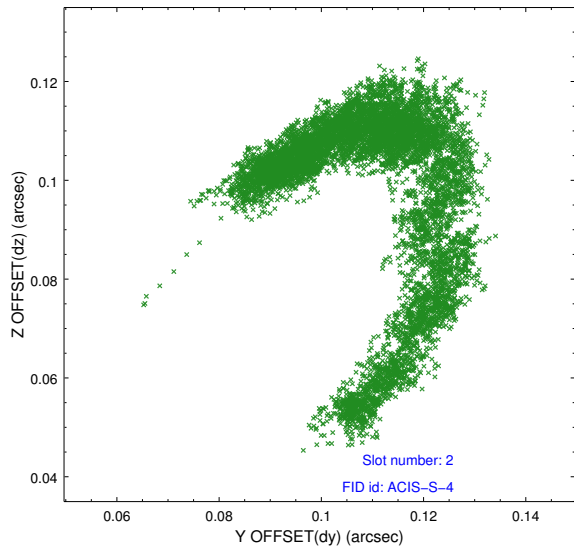
2.5.1 Slot 0



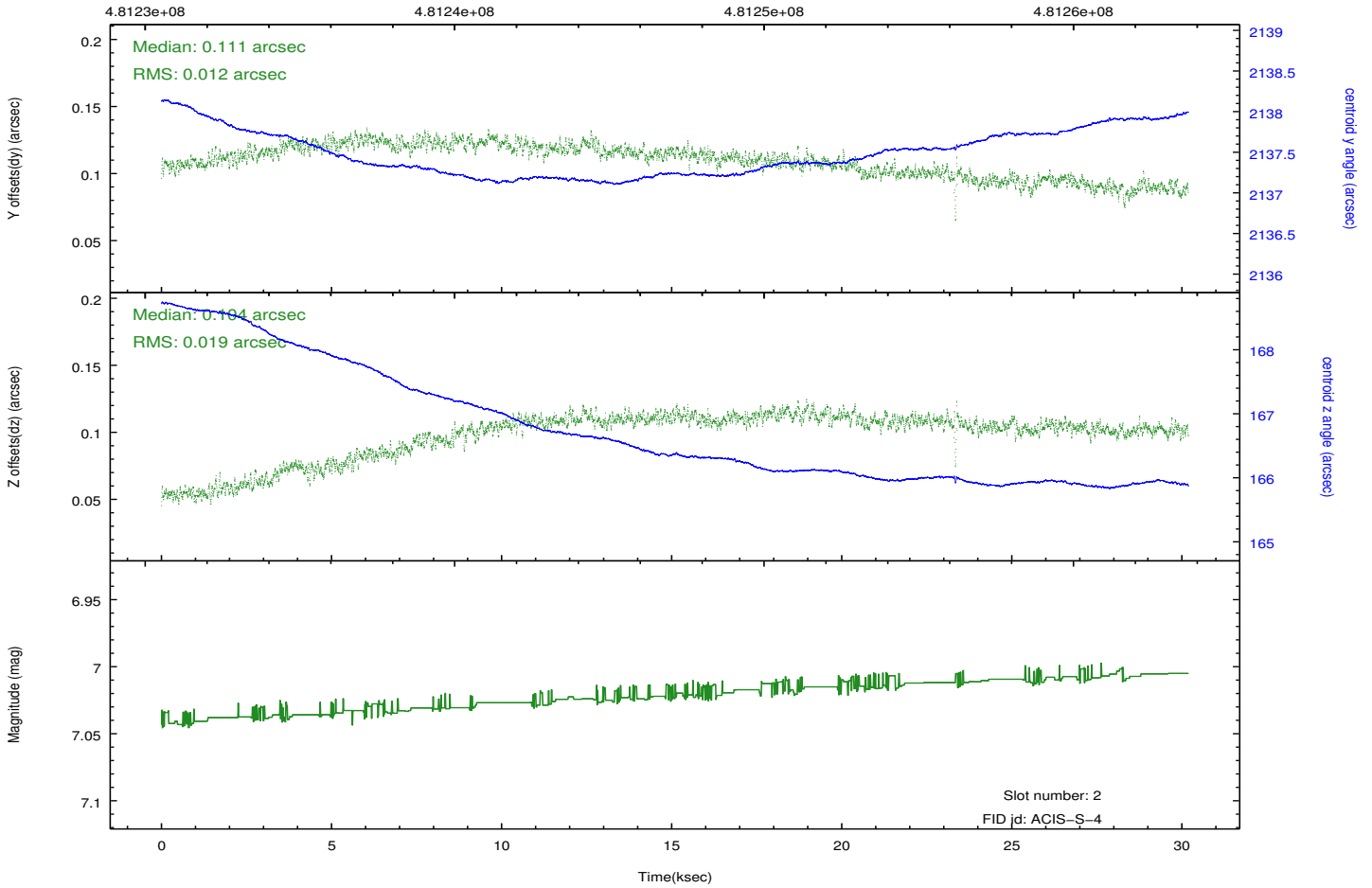
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.964799888432

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.